THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: 3617 CENTRAL (3 lines).

Established in ENGLAND, 1859.

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

Established in AUSTRALASIA, 1885.

No. 1,841. Vol. LXXXVI. MAY 8, 1915.

Subscription, 10s. per annum, including Diary. Free the World over. Single Copies, 6d. each. Winter and Summer Issues. 1s. each. Post Free.

TELEGRAMS: "OPIUM."
PHONES: City 984 & 4038.

The Best House for
OPIUM and its preparations
PHARMACEUTICAL PRODUCTS
"SILVER CHURN" Dairy Specialities

OLDFIELD, PATTINSON & CO., MANCHESTER

Effervescent Citrate of Magnesia
(So called.)

Packed in Blue Flats, shived, capsuled and labelled.

No. 3 Quality.
2 in 4 oz. ... 4/- doz.
3 in 6 oz ... 5/6 ,,
4 in 8 oz. ... 6/3 ,,
6 in 12 oz. ... 8/6 ,,
to account.

Packed in White Glass Kalis, shived, capsuled, and labelled.

No. 3 Quality.
3¼ in 6 oz.... 4/6 doz.
4¾ in 8 oz.... 5/6 ,,
7 in 12 oz ... 8/3 ,,
10¼ in 16 oz....11/3 ,,
to account.

Packed in Plug Stoppered Cheltenhams, capsuled and labelled.

No. 3 Quality.
3 in 6 oz. ... 5/3 doz.
4 in 8 oz. ... 6/- ,,
6½ in 12 oz. ... 8/6 ,,
to account.

Samples forwarded on request.

Special quotations to buyers in quantity.

Allen & Hanburys Ltd. London

Index and Buyers' Guide, pp. 5, 6 and 7.

May, Roberts' Traveller.

No. 4023 CITY. MAY 8, 1915 LONDON & DUBLIN.

INCREASED SPIRIT DUTY.

The proposed enormous increase in the Duty will render all Toilet preparations made from Duty-paid Spirit prohibitive in price.

Our Style "D" Toilet Preparations

made from duty-free Industrial Spirit are of excellent quality, and difficult to distinguish from those made from Rectified Spirit.

Hair Wash
(Erasmus Wilson).

4 oz. Sprinkler top **5/3** per doz.
8 oz. ,, ,, **8/6** ,,
5% Discount.

Bay Rum.

2 oz. Corked ... **2/9** per doz.
2 oz. Sprinkler top **3/5** ,,
4 oz. Corked ... **4/6** ,,
4 oz. Sprinkler top **5/3** ,,
5% Discount.

MAY WE SEND YOU SAMPLES?

Dry Shampoo.

2 oz. Corked ... **3/5** per doz.
2 oz Sprinkler top **3/11** ,,
4 oz. Corked ... **5/6** ,,
4 oz. Sprinkler top **6/-** ,,
5% Discount.

MAY, ROBERTS & CO., LTD.

7, 9 & 11 Clerkenwell Road, LONDON, E.C.

AND AT 16 WESTMORELAND STREET, DUBLIN.

PERFECT SOLUBLE ESSENCE OF LEMON

ACHIEVES ANOTHER TRIUMPH.

THE LEMONADE WHICH GAINED THE

GOLD MEDAL

IN THE BREWER'S EXHIBITION COMPETITION

1914

WAS PREPARED WITH THIS ESSENCE.

STEVENSON & HOWELL, LTD.

SOUTHWARK STREET, LONDON, S.E.

Pure Milk Casein with Glycerophosphates.
VITAGEN
Identical in composition and in all respects the same as the German product Sanatogen.

PURE MILK CASEIN with GLYCERO-PHOSPHATES
supplied under Buyer's own name & labels at same prices.

Tins same weights as Sanatogen.
VITAGEN
7/-, 11/-, 18/-, 30/- per dozen.
Bulk 2/- lb.

ACETOPIRIN or ASPIRIN.
Bottles of 25's and 100's.

BROMIDES of AMMONIUM, POTASSIUM, SODIUM.

JOHN LORIMER
119 Finsbury Pavement, London, E.C.
ALL BRITISH PRODUCTS EXCEPT BROMIDES.

ODONOL TOOTH PASTE
The Finest on the Market.
In pure tin tubes.
Ribbon opening.
4½ × 1 in.
48/- gross.

METOL
SALOL
BARBITONUM
AMIDOL.

This perfume appeals strongly to all patriotic Britons, especially to Ladies.
EAU DE BOLOGNE
Greatly appreciated in Military Hospitals.
2 & 4-oz. bots., 7/6
13/- doz. Sells readily.

ALL BRITISH
LYSOL
In bottles with Measures.
4 8 16 oz. 1 gall.
4/- 6/6 11/- 4/3 each
Special Prices to Wholesale Buyers.

A pure Cresol preparation, and contains 50 per cent. of Cresylic Acid.
LYSOL
is perfectly neutral and soluble.

Prompt Sales
Quick Turnover
Increasing Demand
Protected Price

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis," because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENSES.—It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a license.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

WINCARNIS

BRAND & CO.'S SPECIALTIES FOR INVALIDS.

IMPORTANT NOTICE.

BRAND & CO., LTD., beg to notify the TRADE that they have reluctantly decided to advance the prices of some of their Invalid Specialties **as from April 29, 1915.** This action has been forced upon them by the large increase in the cost of meat, labour and raw materials generally. In taking this step, they have very carefully considered the retail prices also, and have fixed them so as to show a better percentage of profit to the trade. The following are the principal articles affected and the new prices :—

		Tins Per Doz.	Bottles Per Doz.	Lowest Retail Prices. Per Tin.	Per Bottle.
Essence of Beef	small	15/6	17/–	1/6	1/8
„ „ „	large	29/–	32/–	2/9	3/–
„ „ Chicken	small	21/6	23/–	2/–	2/3
„ „ „	large	41/–	44/–	3/9	4/2
„ „ Mutton	small	15/6	17/–	1/6	1/8
„ „ „	large	29/–	32/–	2/9	3/–
„ „ Veal	small	17/–	18/6	1/8	1/10
„ „ „	large	32/–	35/–	3/1	3/4

Concentrated Beef Tea, per dozen, in 2-oz. tins,	12/6	1/2
„ „ „ „ „ „ 4-oz. „	25/–	2/4
„ „ „ „ „ „ 8-oz. „	50/–	4/6
„ „ „ also in Skins, per lb.,	8/–	9/– per lb.
Home-made Beef Tea (Clear or Fibrous), in bottles, per doz.,	5/6, 9/–, and 15/6	6½d. 11d. and 1/6
„ „ „ Fibrous only, in tins,	6/– and 11/–	7d. and 1/1
Beef Broth, per doz. tins—	6/– and 11/–	

Savoury Meat Lozenges, in Metal Boxes

		Retail.
Small Size	10/6	1/– per box.
No. 1 „	15/6	1/6 „ „
No. 2 „	30/–	2/9 „ „

SUBJECT TO USUAL DISCOUNT.

For additional alterations, see Revised Price List.

BRAND & CO., LIMITED,

MAYFAIR WORKS, VAUXHALL, LONDON, S.W.

BACTERIOLOGICAL LABORATORIES

CROFTON LODGE, Higher Runcorn, Cheshire.

The house with the adjoining land has been purchased by the Company, and is fitted up with the most modern appliances for the production of Vaccine, Sera, &c., and general Bacteriological Work.

Urgent orders for Vaccines and Sera outside our regular business hours may be sent direct to Crofton Lodge, Higher Runcorn, Cheshire.

Telephone No.: RUNCORN 70.

EVANS

Urgent orders for Vaccines and Sera outside our regular business hours may be sent direct to Crofton Lodge, Higher Runcorn, Cheshire.

Telegrams: "Serovaccin Runcorn."

New detailed PRICE LIST, LITERATURE, etc., for distribution on application.

EVANS SONS LESCHER & WEBB
Limited

LIVERPOOL AND LONDON.

Also New York, U.S.A.

INDEX TO ADVERTISEMENTS IN THIS ISSUE.

Page

Chem. Co., Ltd. 25
ors, Ltd. 10, 16
stine Co. (British), Ltd. .. xix
ndre, L. xvii
& Hanburys, Ltd. ..... Cover
ice Drug and Chemical Co. ix
iation of Manufacturing
mists, Ltd. 8
, W. & T., Ltd. ..... Cover
y, R., & Son xv
r, Parson C. ..... Col. Supp.
peng Quinine Factories .. iv
er, R. W. ..... Text 614
nam, F. C. 22
nam, M., & Son 14
& Chiapetta 8
n & Stone, L'd. xiii
e & Fish ..... Col. Supp.
y & Draper, Ltd. 25
Roberts, A., & Co., Ltd. .. 17
ey, S., & Son 22
well, E., & Son, Ltd. xvi
l & Co., Ltd. 3
y & Hinchliffe, Ltd. 24
& Co. ..... Col. Supp.
h Drug Houses, Ltd. .. Cover
tele Manfg. Co. vi
her & Haselar, Ltd. xvi
e, Warren & Ridgley, Ltd. .. xv
ough, J., Ltd. ..... Text 614
oughs Wellcome & Co. 31
r, J., & Co., Ltd. 18
l Supply Agency 28
ty, T., & Co. ..... i, xii, xvii

Page

Coleman & Co., Ltd. 2
College of Preceptors 20
Cooper, Son & Co., Ltd. xvi
Coulsworthy Table Water 10
Crawshaw, E., & Co. xvi
Cupal, Ltd. 32
Cuxson, Gerrard & Co., Ltd. .. xiv
"Daily Mail" 23
Dale, John, Manfg. Co. 28
Davis, J. M., & Sons xv
Degen, F. A. 20
Deions, Ltd. xvi
Digestive Ferments Co. 8
Dodge & Olcott Co. 12
Dore, J., & Co. 28
Duncan, Flockhart & Co. x
Ellison, H., Ltd. xvi
Elt's College 21
Ely Bros., Ltd. 22
Evans Sons Lescher & Webb, Ltd. ..... iii, 4
Exchange Column ..... Col. Supp.
Expurgo Manufacturing Co. .. xvii
Fairchild Bros. & Foster 32
Fentiman, A. G. xvi
Fentiman, A. J., & Co. xvii
Fink, F., & Co. xvi
Fletcher, Fletcher & Co., Ltd. Text 614
Ford, Shapland & Co. 25
Frame Food Co. ..... viii, 10
Fulham Pottery and Cheavin Filter Co., Ltd. 24
Galen Manufacturing Co., Ltd. xvi

Page

Goldberg, I. L. 8
Goodrich, The B. F., Co., Ltd. .. 27
Gosnell, J., & Co., Ltd. 15
Gower, J. ..... Col. Supp.
Great Western Railway 23
Greeff, R. W., & Co. 9
Hackett, S. E. ..... Col. Supp.
Halder, E. C. xvi
Harker, C.R., Stagg & Morgan, Ltd. 14
Harley, T. xviii
Harrington Bros., Ltd. x
Hayes & Finch, Ltd. 28
Hertz & Co. 18
Holiday & Co. 28
Hubbuck, T., & Son, Ltd. v
Huisking, C. L. 12
Ingram, J. G., & Son xiv
Isaacs, I., & Co. xiii
Jewsbury & Brown 24
Jeyes' Sanitary Compds. Co. Ltd. xviii
Johnson Laboratories 19
Josephs, P. & Sons, Ltd. Col. Supp.
Kay Bros., Ltd. xix
Keene & Ashwell, Ltd. i
Kelland, W. P. 23
Landau & Co. v
Lescol Perfumery Co. 12
Leuders, G., & Co. vi
Levermore, A., & Co., Ltd. xvi
Lewis, H. K. 22
Little, D. J., Co. 16
Lofthouse & Saltmer, Ltd. 29
London College of Chemistry .. 21
Lorimer, John 2

Page

Lueders, George, & Co. vi
Macfarlan, J. F., & Co. xx
M'Glashan, D. 10
Macnair, A., & Co. xvi
Magnus, Mabee & Reynard Inc. .. 17
Mallinckrodt Chem. Works of Canada, Ltd. iv
Mangold, C., & Co. vi
Maw, S., Son & Sons 11
May, Roberts & Co., Ltd. .... Cover
Mellin's Food, Ltd. 7
Millar, A., & Co., Ltd. vi
Moneanto Chemical Works v
Northern College 21
Orridge & Co. ..... Col. Supp.
Parke, Davis & Co. xi
Pascall, Jas., Ltd. 24
Peat Products Co. (Sphagnol), Ld. xii
Pelliot, Henri, & Cie vii
Perken, Son & Co., Ltd. 25
Pillischer, J., Ltd. xvii
Pneumosan Company ii
Polak & Schwarz, N. V. 13
Potter & Clarke, Ltd. viii
Raworth, J. E. xvi
Reitmeyer Calburn & Kindersley, Ltd. 30
Roberts' Patent Filling Mach. Co. 28
Robinson & Sons, Ltd. 29
Rosmarine Manfg. Co. 14
Rowe, Wilfrid T. xiii
Rudd, F. M. 17
Rudduck & Co. ..... Col. Supp.
Sanitas Co. Ltd. ..... Text 614

Page

Securitas Co., Ltd. vi
Shirley Bros., Ltd. xviii
Sim, Ltd. vii
Singleton & Cole, Ltd. xvi
Smith, J. H., & Co. xix
Smith, T. & H., Ltd. vii
Societeit voor Chem Industrie Katwijk 8
Solport Bros. 24
South of England College 21
Spatula Co. 21
Stevenson & Howell, Ltd. 1
Stevenson, Hugh, & Sons, Ltd .. 10
Stipendum Stopper Co. 29
Strong, C. xix
Sturge, J. & E., Ltd. iv
Swales, T. xii
Templar Malins, Ltd. xvi
Tidman & Son, Ltd. xvii
Tomlinson, T., & Son .... Col. Supp.
Tompkine, James, Ltd. xvii
Toogood, W., Ltd. 16
Van Horn & Sawtell xvi
Verona Chemical Co x
Viscose Development Co., Ltd. .. 23
Wagner Bros. xiii
Washington Chemical Co., Ltd. .. vi
West, T., & Son 17
Westminster Coll. of Pharmacy 20
Whiffen & Sons, Ltd. vi
Wilcox, Jozeau & Co. ..... Text 614
Wladyslaw Hoffman & Co. vii
Wright, A. J., Ltd. 20
Zimmermann, C., & Co. (Chemicals), Ltd. 27

BUYERS' GUIDE FOR GOODS ADVERTISED IN THE C. & D.

solute Alcohol
ngh, J., Ltd.
Acetanilide
oyne, Burbidges & Co.
Holliday & Sons Ltd.
etic Anhydride
nite Co.
cetyl-Salicylic Acid
W. J., & Co., Ltd.
Hall, R., & Co.
Holliday & Sons, Ltd.
eyer Calburn & Kinley, Ltd.
Advertisins
y Mail" | Degen, F. A.
erated Water Machinery
tt & Foster
Aeration Supply, Ltd.
erated-Water Materials
tt & Foster
Roberts & Co., Ltd.
W. J., & Co., Ltd.
William, Ltd.
nson & Howell, Ltd.
erated Waters
al, Ltd.
& Co., Ltd.
ncies, Colonial, &c.
ing, Chas. L.
, Campbell & Co.
on Ltd.
yslaw Hoffman & Co.
Air Cushions
, Warren & Ridgley, Ld.
Alkaloids
ughs Wellcome & Co.
hale, J. W. & Sons
rds & Sons, Ltd.
rlan, J. F., & Co.
eyer Calburn & Kinley, Ltd.
s, Ferdinand
H., & Co.
, T. & H., Ltd.
Almond Oil
Stafford, & Sons, Ltd.
Aluminium Articles
ler & Hasslar, Ltd.
Bros., Ltd. | Venesta, Ld.
balance Outfits
ughs Wellcome & Co.
Forster & Co., Ltd.
od. William, Ltd.
American Chemicals, &c.
ing, Chas L.
ckrodt Chem. Worke
American Proprietaries
ican Drug Supply Co.
ts & Co.
mmonia & Salts
n & Blackburn
ner, Mond & Co., Ltd.
Ampoules
lon, M., & Co.
Jules, & Son
S., Son & Sons
heimer, Son, & Co., Ltd.
Anæsthetics
an, Flockhart & Co.
rds & Sons, Ltd.
rlan, J. F., & Co.
azin Corporation, Ltd.
, T. & H., Ltd.
Aniline Dyes
chaw, E., & Co.
Hall, R., & Co.

Annatto
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.
Antiseptics
Bell (John), Hills & Lucas, Ld.
Celtol Supply Agency
Eucryl Ltd.
Sanitas Co., Ltd.
Young, R. & Co. Ltd.
Artificial Limbs
Ferris, J. & E.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Asbestos
Bratby & Hinchliffe, Ltd.
Aspirin
Bayer Co., Ltd.
Keene Laboratories
Asthma Remedies
Hair, B. W., & Son
Lofthouse & Saltmer, Ltd.
Potter & Clarke, Ltd.
Atropine
Roques, Ferdinand
Bacterial Vaccines
Christy, Thos., & Co.
Evans Sons Lescher & Webb
Martindale, Wm.
Parke, Davis & Co.
Baking Specialities
British Wheat Salte Co.
Balsams
Dodge & Olcott Co.
Bandage Winder
Wagner Br s.
Barometers
Darton, F., & Co.
Barrels
Venesta, Ltd
Bath Cabinets
Riley Bros., Ltd.
Bath Gloves
Cuxson, Gerrard & Co., Ltd.
Solport Bros.
Bed and Douche Pans
Meinecks & Co.
Beeswax
Hayes & Finch, Ltd
Biological Products
Christy Thos., & Co.
Bismuth Salts
Alliance Drng & Chem. Co.
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Lane-Hall, R., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, Alfred, & Sons
Bleeding Bowls
Meinecke & Co.
Blotting Paper
Ferd, T. B., Ltd.
Body Belts
Berton, Arthur, Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Wood, Vincent
Books, &c.
Cassell & Co.
Christy's "Monthly"
Churchill, J. & A.
Martindale's "Extra Pharm"
"Spatula, The"
Squire's "Companion"
Botanic Druggists
Brook, Parker & Co. Ltd.
Newball & Maeon
Potter & Clarke, Ltd.

Bottles, Jars, &c., Glass
Barnett & Foster
Beatson, Clark & Co., Ltd.
Ferry, T., & Son, Ltd.
"Ideal" Bottle
Isaacs, I., & Co.
Lang, Jules, & Son
Laycock, Tom, & Co.
Maw, S., Son & Sons
Mellin, G., & Co.
Orrocks, Ltd.
Poths, H., & Co.
Swales, Thomas
Universal Bottle Co
Youldon, E., Ltd.
Bougies
Bresillon, M., & Co.
Boxes
Ayrton, Saunders & Co., Ltd.
Estes, E. B., & Sons, Ltd.
Ford, Shapland & Co.
Globe Box Co.
Robinson & Sons, Ltd.
Shirley Bros., Ltd.
Stevenson, H., & Sons, Ltd.
Stipendum Stopper Co.
Waide, T., & Sons
Bromides
Greeff, R. W., & Co.
Roques Ferdinand
Brushes
Bidwell, Bidwell & Co., Ltd.
Hovenden, R., & Sons, Ltd.
Kent, G. E., & Sons, Ltd.
Maw, S., Son & Sons
Titterton & Howard
Butter Colouring
Fullwood, R. J., & Bland
Oidfield, Pattinson & Co.
Cachets
Cooper, Son & Co., Ltd.
Cacodylates
Roques, Ferdinand
Calf Lymph
Heinemann, W.
Cameras
Butcher, W., & Sons, Ltd.
Camphor
Allianoe Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Cantharidin
Smith, T. & H., Ltd.
Caps for Bottles, &c.
Betts & Co., Ltd.
Darter, Wilkinson & Co.
Smith Bros. & Co., Ltd.
Viscose Development Co., Ld. (Self-fixing and Airtight)
Capsuled Pills
McKesson & Robbins
Capsules (various)
BritiehOrganotherapyCo., Ld.
Denoual, Jules, & Co.
Evans Sons Lescher & Webb,
Mawson & Co.
Stevenson, H. E., & Co.
Tye, John, & Son
Warrick Bros. Ltd.
Carbon Tetrachloride
Securitas Co., Ltd.
Cartons
Globe Box Co.
Robinson & Sons, Ltd.
Suttley & Silverlock, Ltd.
Casein
British Casein Co. (1911), Ltd.
Cash Tills
National CashRegisterCo.Ld.

Catheters
Goodrich, B. F., Co.
Mason Bros. & Chapman
Warne, Wm., & Co., Ltd.
Caustic Soda
Brunner, Mond & Co., Ltd.
Cellulose Acetate
Cellonite Co.
Cements
Kay Bros., Ltd.
Mendit, Ltd.
Chalk, Precipitated
Levermore, A., & Co., Ltd.
Mumford, G. S., & Sone
Nichols Chemical Co., Ltd.
Sturge, John & E., Ltd.
Chemical Plant
Forshaw, E., & Son, Ltd.
Chemicals
Baiss Bros. & Stevenson, Ltd.
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bramwell, E., & Son, Ltd.
British DrugHouses Ltd., The
Brunner, Mond & Co., Ltd.
Burgoyne, Burbidges & Co.
Burroughe Wellcome & Co.
Carnegie Bros.
Corbyn Stacey & Co., Ltd.
EvansSonsLescher&Webb, Ld
Greeff, R. W., & Co.
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Lane-Hall, R., & Co.
Mallinckrodt Chem. Works
Martindale, W.
May & Baker, Ltd.
Reitmeyer, Calburn & Kindersley, Ltd.
Saccharin Corporation, Ltd.
Soheller, Emil, & Co., A. G.
Southall Bros. & Barclay, Ltd.
Sturge, John & E., Ltd.
Tyrer, T., & Co., Ltd.
Washington Chemical Co., Ld.
White, A., & Sons
Zimmermann, C., & Co. (Chemicals), Ltd.
Chloride of Lime
Brunner, Mond & Co., Ltd.
Chlorodyne
Davenport, J. T., Ltd.
Freeman's Chlorodyne, Ltd
Chloroform
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Smith T. & H., Ltd.
Southall Bros. & Barclay, Ltd
Cigars & Cigarettes
Singleton & Cole, Ltd.
Citric Acid and Citrates
BritishDrugHouses, Ltd., The
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Pelliot, Henri, & Cie
Sturge, John & E., Ltd.
Clinical Thermometers
Burge, Warren & Ridgley, Ld.
Bush, H. W., & Co., Ltd.
Hicks, James J.
Maw, S., Son & Sons
Perken, Son & Co., Ltd.
Pillischer, J.
Powell, J. T., & Co
Zeal, G. H.
Cloth Balls
O'Neil, Zetts & Co.
Senier, Alf., & Co.

Coal Tar Specialities
Wright, Layman&Umney, Ld.
Cocaine
Roques, Ferdinand
Cocoa
British Casein Co. (1911), Ltd.
Cadbury Bros., Ltd.
Plasmon, Ltd.
Cod Liver Oil
British Drug Houses, Ld., The
Bugge, Johann, & Co.
EvansSoneLescher&Webb, Ld
Southall Bros. & Barclay, Ltd
Sparks, White & Co., Ltd.
Wright, Layman & Umney, Ld
Collapsible Boxes
Globe Box Co.
Collapsible Tubes
Betts & Co., Ltd.
Brooke, Peel & Co
Veneeta, Ltd.
Combs
Hovenden, R., & Sons, Ltd.
Condensers
Bennett, Sons & Shears, Ltd
Confectionery, Medicated
Guest, Thos., & Co.
Pascall, James, Ltd.
Continental Props.
American Drug Supply Co.
Bresillon, M., & Co.
Roberte & Co.
Wiloox, Jozean & Co.
Coppersmiths
Dore, John, & Co.
Corks
Ardwick Cork Depot
Mitchell, N. W., & Sons, Ltd.
Corn Planes
Barkham, F. C.
Corn Plasters, &c.
Solport Bros.
Coumarin
Zimmermann, C., & Co., Ltd.
Counter Adjuncts
EvansSonsLescher&Webb, Ld
Counter Specialities
Allen & Hanburys, Ltd.
British Drug Houses, Ld., The
Burgoyne, Burbidges & Co.
Hewlett, C. J., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ld.
Counting and Filling Machine
Forgrove Machinery Co., Ltd.
Court Plaster
Soiport Bros.
Cream of Tartar
Pelliot, Henri, & Cie
Creosote
Baiss Bros. & Stevenson, Ltd
Crepe Bandages
Gimber, W., & Son
Burge, Warren & Ridgley, Ltd.
NorwichCrepe Co. (1856), Ltd.
Wood, Vincent
Cyanides
May & Baker, Ltd.
Dental Mechanics
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Templar Malins, Ltd.
Wardale, F. C., & Co.

Dairy Specialities
Fullwood, R. J., & Bland
Oidfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.
Dentifrices
Beecham, T.
Bell (John), Hills & Lucas, Ld.
Berton, Arthur, Ltd.
Blackis, Robert
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd
Eucryl, Ltd.
Gosnell, John, & Co., Ltd.
McKesson & Robbins
Maw, S., Son & Sons
Odol Chemical Works
Parke, Davie & Co.
Sangers
Standard Tablet & Pill Co., Ld.
Woolley, J., Sons & Co., Ltd.
Developers (Photo.
Evans Sons Lescher & Webb
Dextrin
Fink, F., & Co.
Diabetic Foods
Van Abbott, G., & Sons;
Diamidophenol
Greeff, R. W., & Co.
Digestive Products
Armour & Co., Ltd.
Fairchild Bros. & Foster
Dimethylamino-antipyrin
Lane-Hall, R. & Co.
Disinfectants
Baiss Bros. & Stevenson, Ltd
Burgoyne, Burbidges & Co.
Burt, Boulton & Haywood, Ld
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Harker, Stagg & Morgan, Ltd.
Jeyes' Sanitary Compds. Ltd
Reichwald, A., Ltd.
Sanitas Co., Ltd.
Stevenson, H. E., & Co.
Willows, Francis, B. & T., Ltd.
Wright, Layman & Umney, Ld.
Douches, Rubber
Goodrich, B. F., Co.
Druggists' Sundries
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Brook, Parker & Co., Ltd.
Brytstele Manfg. Co.
Burge, Warren & Ridgley, Ld.
Burgoyne, Burbidges & Co.
Bush, H. W., & Co., Ltd.
Edwards, W., & Son
EvansSonsLescher&Webb, Ld
Hovenden, R., & Sons, Ltd.
Longcroft, H. M.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Queich, H. C. & Co.,
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Sonthall Bros. & Barclay, Ltd
Swales, Thomas
Toogood, W., Ltd.
Woolley, J., Sons & Co., Ltd.
Eau de Cologne
Bronnley, H., & Co., Ltd.
Christy, Thos., & Co.
Erasmic Co., Ltd.
Gosnell, John, & Co., Ltd.
Lescol Perfumery Co.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Sangers'
Schutze, F., & Co., Ltd.
Vinolia Co., Ltd.

Drugs, Crude
Burkett, Sharp & Co.
Gathergood's Exor.
Goodall, Backhouse & Co.
Lambert, Saml., & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Salle, H., & Co.

Educational Institutions
Bath & West of England College
Birmingham and Midland College
British Optical Institute
College of Preceptors
Eit's College
Liverpool School of Pharmacy
London College of Pharmacy
Northern College of Pharmacy
School of Pharmacy
South of England College
Westminster College

Elastic Gum Insts.
Mason Bros. & Chapman

Elastic Hosiery
Ayrton, Saunders & Co., Ltd.
Bailey, W. H., & Son
Burge, Warren & Ridgley, Ld.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Wood, Vincent

Elect. Novelties
Ward & Goldstone
Wright, Archd. J., Ltd.

Electroplated Toilet Goods
Scott, Adolph

Emery and Cloth
Oakey, J., & Sons, Ltd.

Emetine Salts
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd

Emulsifiers
Bennett, Sons & Shears, Ltd.
Wilkinson, S. W., & Co.

Emulsions, C.L.O., &c.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Browning, Wm., & Co.
Cupal, Ltd.
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.,
Stevenson, H. E., & Co.
Wyleye, Ltd.

Enamelled Hospital Requisites
Orme, Evans & Co., Ltd.

Endolytic Tubes
Fletcher, Fletcher & Co. Ltd

Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Warne, W., & Co., Ltd.

Epsom Salts
Howarde & Sons, Ltd.
May & Baker, Ltd.

Essences, Sol. and Fruit
Alliance Drug & Chem.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Stevenson & Howell, Ltd

Ethers
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howarde & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

Eucalyptus Oil
British Drug Houses, Ltd., The
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.

Evaporators
Forshaw, E., & Son, Ltd.

Extract of Herbs
Newball & Mason
Potter & Clarke, Ltd.

Extracts (Medicinal)
Allen, Stafford, & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ld.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W. & Son, Ltd.

Factory, &c., Sites
Great Western Railway

Feeding Bottles
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.

Filling Machines
Forgrove Machinery Co., Ltd.
Jackson, J. G., Ltd.
Roberts Pat. Filling Mach Co.

Filter Papers
Ford, T. B., Ltd.

Filters
Fulham Pottery & Cheavin Filter Co., Ltd.

Finger Stalls
Solport Bros.

Flycatchers
Alabastine Co. (British) Ltd.
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Strong, Christy

Foods, Invalid, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
British Casein Co. (1911), Ltd.
British Milk Products Co., Ld
Colman, J. & J., Ltd.
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co.
Harker, Stagg & Morgan, Ltd.
Lorimer, John
Lofthouse & Saltmer, Ltd.
Mellins Food, Ltd.
Natural Food Co., Ltd.
Plasmon, Ltd.
Reade Bros. & Co., Ltd.
Sister Laurae Infant Food Co.
Southall Bros. & Barclay, Ltd
Wander, A., Ltd.
Willowe, Francis, B. & T., Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wulfing, A., & Co.

Foot Appliances
Scholl Mnfg. Co., Ltd.

Fruit Drink
McGlashan, D.

Fuller's Earth
Mumford, G. S., & Sons

Fumigators
Sanitas Co., Ltd.

Gallic Acid
Mallinckrodt Chem. Works

Gauzes
Bailey, R., & Son

Glassware, Chemical
Lang, Jules, & Son

Glycerin
Price's Patent Candle Co., Ltd.

Glycerophosphates
Moneanto Chemical Worke
Reitmeyer, Calburn & Kindersley, Ltd.

Grease Paints
Osborne, Garrett & Co.
Quelch, Henry C., & Co.

Grease Remover
Perkin & Co., Ltd.

Grinders, Drug, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.

Gripe Water
Woodward, W., Ltd.

Gums
Fink, F., & Co.
Kidston, W. M., & Co.
Lambert Saml., & Co.

Hair Dyes
Harker, C.R., Stagg & Morgan
Blackie, Robert

Hair Preparations
Alexandre, L.
Anzora Perfumery Co.
Blackie, Robert
Edwards' "Harlene" Co.
Osborne, Garrett & Co.
Sangers
Tokalon Ltd.

Hand Carts, Trucks, &c.
Crewe & Co.
Turner, J.

Hat Cleaners
Cox, Arthur H., & Co., Ltd.
Milner's Chemical Co.
Senier, Alf., & Co.

Hat Dyes
Whitaker & Co.

Herbs
Potter & Clarke, Ltd.
Salle, H., & Co.

Hexamethylentetramine
Reitmeyer, Calburn & Kindersley, Ltd.

Homœopathic Medicines
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Rose

Honey
Western Honey Co.

Horse Remedies
Harvey & Co. (Dublin), Ltd.

Hospital Furniture
Gray & Selby

Hospital Ware (Semi-porcelain)
Meinecke & Co.

Hot Air Douches
Ward & Goldstone

Hotels
Kingsley Hotel
Thackeray Hotel

Hot Water Bottles
Bailey, W. H., & Son
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Galen Manfg. Co., Ltd.
Goodrich, B. F., Co.
Ingram, J. G., & Son
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Toogood, William, Ltd.
Warne, Wm., & Co., Ltd.
Wood, Vincent

Hot Water Bottle Stoppers
Rowe, T. Wilfrid

Hydrogen Peroxide
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co. Ltd.

Hypophosphites
May & Baker, Ltd
Tyrer, T., & Co., Ltd.

Ink, Dichroic
Bewley & Draper, Ltd.

Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.

Insect Powder
Keating, Thomas
Potter & Clarke, Ltd.
Raimes & Co.

Iodides
Tyrer, T., & Co., Ltd.

Junket Powder
Armour & Co., Ltd.

Lanolines
Christy, T., & Co.
Hillcrest Oil Co., Ltd.
Howard Lloyd & Co., Ltd.

Lard
Ewen, J., & Sons

Lavender Oil
Allen, Stafford, & Sons, Ltd.
Guillevic, E., & Co.
Ransom, W., & Son, Ltd.

Lavender Water
Bush, W. J., & Co., Ltd.
Goenell, John, & Co., Ltd.

Leeches
Allen & Hanburys, Ltd.

Ligatures
Seabury & Johnson

Lime Juice and Cordial
Evans Sons Lescher & Webb, Ld
Idris & Co., Ltd.

Linseed, Crushed
Mumford, G. S., & Sons

Lints
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.

Liquorice Juice
Boehm, F., Ltd.
Evans Sons Lescher & Webb, Ld
Jackson, Ernest, & Co.
Solazzi

Liquors, Conc.
Fletcher, Fletcher & Co.

Lithia Salts
British Drug Houses, Ld., The
Howarde & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

Loofahs
Hall Foreter & Co., Ltd.
Internl. Sponge Importers, Ld
Solport Bros.

Lozenges
Swalee, Thomas
Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros., Ltd.

Lycopodium
Berg, V., & Sons

Lysols
Aerators, Ltd.
Burt, Boulton & Haywood, Ld
Evans Sons Lescher & Webb, Ld
Lorimer, John
Zimmermann, C. & Co (Chemicale), Ltd.

Machinery, Pharmacal
Allen & Hanburys, Ltd.
Bennett, Sone & Sheare, Ltd.
Forgrove Machinery Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, John J., & Sone, Ltd.
Jackson, J. G., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Magnesia and Preps.
Henry, T. & W.
Howards & Sons, Ltd.
International Chem. Co., Ld.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ld.

Malt Extract and Preps.
Allen & Hanburys, Ltd.
Blackie, Robert
British Drug Houses, Ld., The
Burroughs Wellcome & Co.
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Davies, Sone & Co.
Evans Sons Lescher & Webb, Ld
Fletcher, Fletcher & Co., Ltd.
May, Roberts & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Wyleye, Ltd.

Marking Ink
John Bond ('Crystal Palace')

Measures, Graduated
Bush, H. W., & Co., Ltd.

Meat Extracts
Armour & Co., Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

Medical Coils
Ward & Goldstone

Mercurials
Alliance Drug & Chemical Co.
Howards & Sone, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Metal Clips
Griffin, John J., & Sone, Ltd.

Methylarsenates
Roquee, Ferdinand

Methyl Salicylate
Berg, V., & Sons

Methylated Spirit
Burrough, J., Ltd.
Preeton'e Liverpool Distillery
Randall & Son, Ltd. [Co., Ld.
Riddell & Smith
Thornley, Samuel, Ltd.

Metric Weights
Avery, W. & T., Ltd.

Mineral Waters
Apollinarie & Johannis, Ltd.
Camwal, Ltd.
Couleworthy
Idris & Co., Ltd.
Ingram & Boyle, Ltd.

Mixers and Sifters
Gardner, Wm. & Sone (Glos.) Ld

Motor Goggles
Darton, F., & Co

Naphthalene
Burt, Boulton & Haywood, Ld

Night Lights
Price's Patent Candle Co., Ld.

Oils, Essential
Allen, Stafford, & Sone, Ltd.
Alliance Drug & Chemical Co
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ld
Guillevic, E., & Co.
Lambert, Saml., & Co
Lane-Hall, R., & Co.
London Essence Co.
Magnus, Mabee & Reynard Inc.
Naef, M., & Co.
Polak & Schwarz
Poppelreuter W.
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Verona Chemical Co.
Wright, Layman & Umney, Ld.
Zimmermann, C., & Co., Ltd.

Oils, Mineral, Fatty, &c.
Allen, Stafford, & Sons, Ltd.
Boehm, F., Ltd.
Hertz & Co.
Lewis Mnfg. Co.
Price's Patent Candle Co. Ld.
Stern Sonneborn Oil Co., Ltd.

Ointments
Blackie, Robert
Burgess, E.
Oldfield, Pattineon & Co.
Peat Products (Sphagnol) Ltd.

Olive Oil
Ferrer, J., & Co.
Guillevic, E., & Co.

Opal Jars
Toogood, Wm., Ltd.

Opium Preparations
Oldfield, Pattinson & Co.

Optical Goods
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical Co., Ltd.
Standard Optical Co.

Optical Tuition
British Optical Inetitute
College of Optics
Spectacle Makers Company

Orange and Quinine Wine
Hobson, Joseph, & Son
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

Organic Solvents
Hopkin & Williams, Ltd.

Organo-Therapeutic Preps.
Armour & Co., Ltd.
British Organotherapy Co., Ld
Duncan, Flockhart & Co.

Otto Rose (French)
Guillevic, E., & Co.

Otto Rose (Synth.)
Bush, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd
Steveuson, H. E., & Co.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ld.

Oxygen Baths
Wright & Co.

Packed Goods
Allen & Hanburye, Ltd.
Baiee Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd., The
Corbyn, Stacey & Co., Ltd.,
Cox, Arthur H., & Co., Ltd.
Chriety, Thos., & Co.
Cupal, Ltd.
Davies, Sons, & Co.
Evans Sone Lescher & Webb, Ld
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Lofthouse & Saltmer, Ltd.
May, Roberte & Co., Ltd.
Oldfield, Pattineon & Co
Potter & Clarke, Ltd.
Sangers
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd
Standard Tablet & Pill Co., Ld.
Toogood, W., Ltd.

Palatinoids
Oppenheimer, Son & Co., Ltd.

Paper Containers
Cream Mugs, Ltd.

Paper Handkerchiefs
Toinooo Handkerchief Co., Ld

Paraffinum Liquidum
Browning, Wm., & Co.
Cheeebrough Mnfg. Co.
Silvertown Lubricants, Ltd.
Stern Sonneborn Oil Co., Ltd.

Pastilles
Allen & Hanburye, Ltd.
Burroughs Wellcome & Co.
Evans Sons, Lescher & Webb
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Wander, A., Ltd.
Warrick Broe., Ltd.

Patent Agents
Barker, R. W.
Raworth, John E.

Peppermint Oil
Allen, Stafford, & Sons Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Steveneon & Howell, Ltd.

Peptone
Armour & Co., Ltd.
Fairchild Bros. & Foster
May & Baker, Ltd.

Perfume Materials
Bonaventura, F., & Co.,
Bueh, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, T., & Co.
Lane-Hall, R., & Co.
Naef, M., & Co., Succrs.
Polak & Schwarz
Salle, H., & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ld
Zimmermann, C., & Co., Ltd.

Perfumes
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Britieh Drug Houees, Ld., The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Chriety, T., & Co.
Erasmic Co., Ltd.
Evans Sone Leecher & Webb, Ld
Gosnell, John, & Co., Ltd.
Lescol Perfumery Co.
Lorimer, John
Potter & Clarke, Ltd.
Price's Co., Ltd.
Quelch, H. H., & Co.
Shirley Broe., Ltd.
Southall Broe. & Barolay, Ld.
Tozana Perfumery Co.
Vinolia Co, Ltd.
Warrick Bros., Ltd.
West, T., & Son

Perles
Tye, John, & Son

Pessaries (Soluble)
Burge, Warren & Ridgley, Ld.
Rendell, W. J.

Petroleum Jelly
Cheeebrough Manfg. Co.
Kidston, W. M., & Co.
Meade-King, Robinson & Co.
Stern Sonneborn Oil Co., Ltd.
Wiener, R. O., & Co.

Phenacetin
Greeff, R. W., & Co.
Monsanto Chemical Worke
Read, Holliday & Sons, Ltd.
Reitmeyer, Calburn & Kindersley, Ltd.

Phosphorus and Preps.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Photo. Chemicals
Greeff, R. W., & Co.
Lane-Hall, R., & Co.
Reitmeyer, Calburn & Kindersley, Ltd.

Photo. Goods
Ayrton, Saunders & Co., Ltd.
Burroughs Wellcome & Co.
Butcher, W., & Sons, Ltd.
Evans Sone Lescher & Webb, Ld
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.
Sangers
Wyleys, Ltd.

Photo. Postcards
Rajar, Ltd.

Pill Makers
Cox, A. H., & Co., Ltd.
Daviee, Sons & Co.
Howard Lloyd & Co., Ltd.
McKeeeon & Robbins
Standard Tablet & Pill Co., Ld.
Wand Manufacturing Co.

Pilocarpine
Roques, Ferdinand

Plasters
Dalmas, A. de St., & Co.
Galen Manufctg. Co., Ltd
Seabury & Johnson

Plate Powder
Griffiths, T. D., & Co.

Pleated Paper
Darter, Wilkinson & Co.

Pocket Lamps Electric
Ward & Goldstone

Polishes (Various)
Bradley & Bourdas
Holiday & Co.
Oakey, J., & Sons, Ltd.

Postal Boxes
Globe Box Co.
Hertz & Co.
Robinson & Sons, Ltd.

Powder Paper
Papier Poudré Ltd.

Printers
Ford, Shapland & Co.
Suttley & Silverlock, Ltd.
Townsend, J., & Sons
Waide, T., & Sons
Wilkinson, James F.

Proprietary Articles
Angier Chemical Co., Ltd.
Anglo-Amer. Pharm. Co., Ld
Aebton & Parsons, Ltd.
Beecham, T.
Beghe & Chiapetta
Bell (John), Hills & Lucas, Ld
Bishop, Alfred, Ltd.
Breeillon, M., & Co.
Browning, W., & Co.
Burgess, E.
Castle Laboratory
Chriety, T., & Co.
Colman, J. & J., Ltd.
Corbyn, Stacey & Co., Ltd.
Cupal, Ltd.
Daisy, Ltd.
Davenport, J. T., Ltd.
Delons, Ltd.
Duncan, Flockhart & Co.
Edwards, W., & Son
Eno, J. C., Ltd.
Evans Sons Lescher & Webb, Ld
Expurgo Manfg. Co.
Fellowe' Med. Manfg. Co.
Fennings, Alfred
Ferris & Co., Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Hardcastle, W., & Sons
Henry, T. & W.
Hommel'e (Dr.) Hæmatogen
International Chem. Co., Ld
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Kyho Proprietary, Ltd.
Mandall & Co., Ltd
Martindale, W.
May, Roberte & Co., Ltd.
Morgan Jones & Co.
Mumford, G. S., & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Oppenheimer, Son & Co., Ld
Owbridge, W. T., Ltd.
Peat Products (Sphagnol) Ld
Phillips, Chas. H., Chem. Co
Pneumosan Company
Powell, Thos., Ltd.
Primer, J.
Reeinol Chemical Co.
Sangers
Scott & Bowne, Ltd.
Squire & Sone, Ltd.
Standard Tablet & Pill Co., Ld
Thompson & Capper, Ltd.
Tokalon Ltd.
Tunbridge & Wright
Wander, A., Ltd.
Warrick Bros. Ltd.
White, A. J., Ltd.
Willcox, Jozean & Co.
Woodward, W., Ltd
Wright & Co.
Wright, Layman & Umney, Ld

Puffs
Schutze, F., & Co., Ltd.
Solport Bros.

Pyrogallic Acid
Greeff, R. W., & Co.

Quinine and Salts
Alliance Drug & Chem. Co.
Bandoeng Quinine Factory
Corbyn, Stacey & Co., Ltd.
Greeff, R. W., & Co.
Howards & Sons, Ltd
Reitmeyer, Calburn & Kindersley, Ltd.

Radium Compounds
Glew, F. H.

Razors
Hovenden, R., & Sons, Ltd.
Kelland, W. P
Maw, S., Son & Sons

Reagents
Hopkin & Williams, Ltd.

Rennet Powder
Armour & Co., Ltd.

Resins, Resinoid
Allen, Stafford, & Sons, Ltd
Macfarlan, J. F., & Co.
Ransom, W., & Son, Ltd.
Smith, T. & H., Ltd.

Respirators
Zimmer & Co.

Rubber Goods
Altrincham Rubber Co.
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ld
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warne, W., & Co., Ltd.

ubber Stamps
ord, C. D.
sian Drugs, &c.
yslaw Hoffman & Co.
Saccharin
arin Corporation, Ltd.
ieylic Acid and Salicylates
, W. J., & Co., Ltd.
anitary Towels
all Bros. & Barclay, Ltd.
Santonine
erg, I. L.
Saponine
, C. W., Ltd.
Scientific Apparatus
p, Son & Co., Ltd.
ther, J.
olds & Branson, Ltd.
les and Weights
, W. & T., Ltd.
Sea Salt
an & Son, Ltd.
eed Dressing
ker, Arthur E.
inson & Hayward, Ltd.
Seeds
r & Clarke, Ltd.
Serums and Antitoxins
& Hanburys, Ltd.
oughs Wellcome & Co., Ltd.
ty, T., & Co.
sons Lescher & Webb, Ld
e, Davis & Co.
ox, Josean & Co.
ampoo Powders
ell, John, & Co., Ltd.
ard Tablet & Pill Co., Ld.
Shares
dam & Tuckniss
Sheep Dips
, Boulton & Haywood Ld.
ker, Arthur E.
inson & Hayward, Ltd.
Shop Fittings
on-Graham, Ltd.
, George
s Sons Lescher & Webb, Ld.
t, D.
ins, S., & Bros., Ltd.
ps, Philip, & Sons, Ltd.
, S., Son & Sons
, H.
all & Sons
ook & Co.
ers
houlder Straps
d, Vincent
iverware Goods
, Adolph

Soap Plant
Forshaw, E., & Son, Ltd.
Soaps, Toilet, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ld.
Bronnley, H., & Co., Ltd.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Euoryl, Ltd.
Evans Sons Lescher & Webb, Ld
Ewen, James, & Sons
Faulding, F. H., & Co.
Field, J. C. & J., Ltd.
Gosnell, John, & Co., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
Lesol Perfumery Co.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ld.
Resinol Chemical Co.
Vinolia Co., Ltd.
Wright, Layman & Umney, Ld
Sodium Bicarbonate
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Sodium Salicylate
Read, Holliday & Sons, Ltd.
Soothers
Newbery, F., & Sons, Ltd.
Schutze, F., & Co., Ltd.
Sparteine
Roques, Ferdinand
Spectacles
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical Co., Ltd.
Spermaceti
Price's Patent Candle Co., Ld.
Sphygmometers
Hicks, James J.
Spices (Ground)
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Spirit of Wine
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.
Sponges
Internl. Sponge Importers, Ld.
Newbery, F., & Sons, Ltd.
Sprays
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.
Sprinkler Corks
Betts & Co., Ltd.

Spruce Beer
Hobson, Joseph, & Son
Starch
Mumford, G. S., & Sons
Stills
Bennett, Sons & Shears, Ltd.
Dore, John, & Co.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.
Stoppers
Rowe, T. Wilfrid
Stipendum Stopper Co.
Surgical Appliances & Dressings
Allen & Hanburys, Ltd.
Bailey, R., & Son
Baiss Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Bush, Henry W., & Co., Ltd.
Carnegie Bros.
Christy, Thos., & Co.
Cuxson, Gerrard & Co., Ltd.
Dalmas, A. de St., & Co.
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Gray & Selby
Haynes, G., & Co.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Robinson & Sons, Ltd.
Seabury & Johnson
Southall Bros. & Barclay, Ltd.
Thermogene Co., Ltd.
Van Horn & Sawtell
Vernon & Co., Ltd.
Vernon, Will, & Sons
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J. Sons & Co., Ltd.
Surgical Tubes (Rubber)
Goodrich, B. F., Co.
Suspensories
Bailey, W. H., & Sons
Synthetic Prods.
Naef, M., & Co.
Syphons
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Williams, E., and Co.
Syringes
Bresillon, M., & Co.
Bush, H. W., & Co., Ltd.
Gray & Selby
Syrups, Medicinal
Fellows' Med. Mnfg. Co.
Table Waters
Burrow, W. & J.

Tablet Machinery
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.
Tablets, Compressed
Allen & Hanburys, Ltd.
British Drug Houses, Ld., The
Brook, Parker & Co., Ltd.
Burgoyne, Burbidges & Co.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ld
Guest, Thos., & Co.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Parke, Davis & Co.
Scheller, Emil, & Co.
Shirley Bros., Ltd.
Standard Tablet & Pill Co., Ld.
Thompson & Capper, Ltd.
Wand Manfg. Co.
Wigglesworth & Co.
"Tabloid" Products
Burroughs Wellcome & Co.
Talc, Powdered
Levermore, Aug., & Co.
Tampons, Medicated
Bresillon, M., & Co.
Tea
Christy, Thos., & Co.
Teats
Ingram, J. G., & Son
Terpeneless Oils
Naef, M., & Co.
Polak & Schwarz
Zimmermann, C., & Co., Ltd.
Theobromine
Scheller, Emil, & Co.
Smith, T. & H., Ltd.
Societeit voor Chemische Industrie Katwijk
Tin Box Makers
Goodall, Backhouse & Co.
Liverpool Tin Canister Co., Ltd.
Shirley Bros., Ltd.
Tinctures in Bond
Allen, Stafford, & Sons, Ltd.
Macfarlan, J. F., & Co.
Ransom, W., & Son, Ltd.
Tinfoil
Venesta, Ltd.
Tobacco
Singleton & Cole, Ltd.
Toilet Paper
Ayrton, Saunders & Co., Ltd.
Burgoyne, Burbidges & Co.
Ford, Shapland & Co.
Townsend, J., & Sons

Toilet Preparations
Christy, T., & Co.
Dearborn, Ltd.
Hall Forster & Co., Ltd.
International Chem. Co., Ld.
Johnson Laboratories
Little, D. J., Co.
Papier Poudré, Ltd.
Quelch, H. C., & Co.
Rosmarine Mnfg. Co.
Stevenson & Howell, Ltd.
Tokalon, Ltd.
Vinolia Co., Ltd.
Trade Marks Agents
Barker, R. W.
Ford, Shapland & Co.
Raworth, John E.
Trade Protection
Assoc. of Mnfg. Chemists, Ld.
Trusses
Bailey, W. H. & Son
Bush, H. W., & Co., Ltd.
Davis, J. M., & Sons, Ltd.
Ellis, Son & Paramore
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Sangers
Schutze, F., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.
Tubed Specialities
Shirley Bros., Ltd.
Tubes, Glass
Williams, E., & Co.
Turned Wood Boxes
Estes, E. B., & Sons
Turpentine
Lambert, Saml., & Co.
Urinals, Earthenware
Meinecke & Co.
Vacuum Flasks
Aerators, Ltd.
Landau & Co.
Quelch, H. C., & Co.
Vacuum Pans
Bennett, Sons & Shears, Ltd.
Valuers
Baker, P. C.
Berdoe & Fish
Brett & Co.
Orridge & Co.
Tomlinson, T., & Son
Vanilla Beans
Magnus, Mabee & Reynard Inc.
Vermin-Killers
Bowley, S., & Son
Christy, T., & Co.
Cupsal, Ltd
Danysz Virus, Ltd.
Evans Sons Lescher & Webb, Ld
Farmer, F., & Co.
Harley, Thomas
Hawker, Arthur E.
Milner's Chemical Co.

Vanillin
Bush, W. J., & Co., Ltd.
Greeff, R. W., & Co.
Verona Chemical Co.
Zimmermann, C., & Co., Ltd.
Vaseline
Chesebrough Manfg. Co.
Vet. Instruments
Mason Bros. & Chapman
Maw, S., Son & Sons
Vet. Remedies.
Cataline Co.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Day & Sons (Crewe)
Dennis, John W.
Edwards, W., & Son
Harvey & Co. (Dublin), Ltd.
Senier, Alf., & Co.
Tomlinson & Hayward, Ltd.
Wyleys, Ltd.
Vinegar
Grimble & Co.
Vulcanite Goods
Kemp's Vulcanising Co., Ltd.
Water Beds, &c.
Warne, Wm., & Co., Ltd.
Water Glass
Goodall, Backhouse & Co.
Tomlinson & Hayward, Ltd.
Water Still
Brown & Sons
Stokes, F. J., Machine & Co.
Waters, Concentrated
Robinson, B., & Co., Ltd.
Waxes
Boehm F., Ltd.
Hayes & Finch, Ltd.
Price's Pat. Candle Co.
Schliemann's Oil & Ceresine Co.
Wiener, R. O., & Co.
Weed Killers
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.
Window Fittings
Ayrton-Graham, Ltd.
Window Tickets
Merten, F., & Co.
Wines, Medicated
Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd.
Hobson, Joseph, & Son
Idris & Co., Ltd.
Robinson, B., & Co., Ltd.
Wrapping Machinery
Forgrove Machinery Co., Ltd
Wrist Straps
Solport Bros.
Zinc Oxide
Hubbuck, T., & Son Ltd.
Stevenson, H. E., & Co.

Mellin's Food

added to fresh cow's milk suits every baby!

By using Mellin's Food and fresh cow's milk you retain the important *vital* properties of the fresh milk and so "humanise" the milk that it becomes similar to mother's milk. Mellin's Food does this most perfectly.

It is this "humanising" power which accounts for the strong, robust character of all Mellin's Food babies.

Attractive Showcards and Advertising Matter sent carriage paid on request.

ADDRESS: MELLIN'S FOOD, LTD., PECKHAM, LONDON, S.E.

BACTERIOLOGICAL PEPTONE

High Proteid Content. Low Ash. Free from Diluents.

DIASTASE	THYROID SUBSTANCE
PEPSINES	THYMUS ,,
PANCREATIN	OVARIAN ,,
TRYPSIN	PITUITARY ,,

We devote our whole time and attention to the manufacture of Digestive Ferments and Organo-Therapeutic Products, and we claim to produce the HIGHEST qualities at the LOWEST prices.

THE DIGESTIVE FERMENTS CO.

DETROIT, U.S.A.

STOCKS HELD BY MAY & BAKER, LTD., BATTERSEA, LONDON. S.W.

SANTONINE

PURE.

Exclusive Seller for all countries outside Russia—

I. L. GOLDBERG,

Iamskaia 12, Petrograd.

London Representative :—

S. TOLKOWSKY,

57 St. Gabriel's Road, Cricklewood, N.W.

Société Anonyme Mines de Schistes Bitumineux à Méride et Besano.

Establishment at Méride (SWITZERLAND.)

SAUROLO

(Ammonium Sulfosaurolicum).

A product obtained exclusively from the distilled oil of the bituminous schists, rich in organic substance of animal origin (containing saurian and fossilised fish), and extracted from our mines at Méride and Besano.

This product is strongly recommended for its purity and high contents of organic sulphur.

General Agents for Sales: **BEGHÉ & CHIAPETTA,**

Succ. a G. Lattuada fu A., Via Crema 29, Milan.

Telephone: 2475.

Theobromine Pure Alkaloid.

Theobromine Sodio-Salicylate

(chemically the same as Diuretine).

Societeit voor Chemische Industrie Katwijk,

KATWIJK-AAN-ZEE,

HOLLAND.

FOR STATUS INQUIRIES, COLLECTION OF ACCOUNTS, AND INVESTIGATIONS,

Join The Association of Manufacturing Chemists, Ltd.

which is **THE MEDIUM** for the **TRADE.**

PROSPECTUS ON APPLICATION.

PARKIN S. BOOTH,

Accountant to the Association of Manufacturing Chemists, Ltd.

(for the Protection of the Drug, Chemical and Allied Trades).

32 KIMBERLEY HOUSE, HOLBORN VIADUCT, E.C.

Telephone: City 6942.

Or 35, 36 & 37 EXCHANGE CHAMBERS,

— 2 BIXTETH STREET, LIVERPOOL. —

Telephone: Central 8365 (4 lines).

PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

R.W. Greeff & Co.

have pleasure in offering the following Products manufactured in FRANCE, UNITED STATES, HOLLAND AND SWITZERLAND, at prices which will be found reasonable under present conditions.

(WHOLESALE QUANTITIES ONLY)

Acetanilid
Acetyl Salicylic Acid
Bromide of Potassium
Bromide of Sodium
Bromide of Ammonium
Cinchonine Sulphate and Muriate
Cinchonidine Sulphate
Cocain Hydrochlor and Puriss
Coumarin Crystals
Creosote Carbonate
Formaldehyde
Glycerine
Guaiacol Carbonate
Heliotropin
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol sub.)
Mercurials
Peppermint Oil
Pepsine
Phenacetin
Phenazone
Pyrogallic Acid
Phenolphthalein
Potassium Sulpho-Guaiacolate
Quinine
Resorcine
Sugar of Milk
Tannic Acid
Tannin Albuminate
Theobromine Pure Alkaloid
Vanillin

R.W. Greeff & Co.
THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.

"PRANA" SPARKLETS

(a magnum Syphon of Soda Water for 1½d.) are a necessity to many people at a time like the present when economy has to be studied more than usual.

¶ At a time of universal shortage of labour the Trade are especially reminded that to push Sparklets means the "cutting out" of expensive and troublesome syphon deliveries, collection and booking.

¶ We regret that we are not in a position to supply "B" size Syphons this year.

AERATORS LTD., "Prana" Sparklet Works, Upper Edmonton, N.

ALL CHEMISTS SHOULD STOCK **ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.

"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in 1d. Packets, and Boxes of 13 Packets at 1/-

Order through your Wholesale Drug House.

D. M'GLASHAN, M.P.S., 12 West End Place, EDINBURGH.

Wholesale Prices on Application.

Coulsworthy

The British Substitute for Evian, Contrexéville, Vittel and Vichy.

The Table Water for Gout, Rheumatism, and Dyspepsia.

COULSWORTHY, KENTISBURYFORD, BARNSTAPLE.

"Corruganza" SEAMLESS Ointment Boxes.

GREASEPROOF. BRITISH MADE.

Better than the old Willow Boxes, because they are stamped out of one piece, and the bottoms cannot fall out.

MILLIONS SOLD ALREADY. REPEAT ORDERS DAILY.

Send at once for Price List (Wholesale or Export only) to the Manufacturers—

HUGH STEVENSON & SONS, Ltd., Summerstown, London, S.W.

A GOOD LINE FOR CHEMISTS.

ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

TELEGRAMS: "ELEVEN CENT LONDON"

S. MAW, SON & SONS
7 TO 12, ALDERSGATE ST.
LONDON, E.C.

Maw's Page

TELEPHONE: CITY 7 PRIVATE BRANCH EXCHANGE

NUMBER 186 MAY 8, 1915

make a note of these good lines

NOSE, EYE & EAR SYRINGES

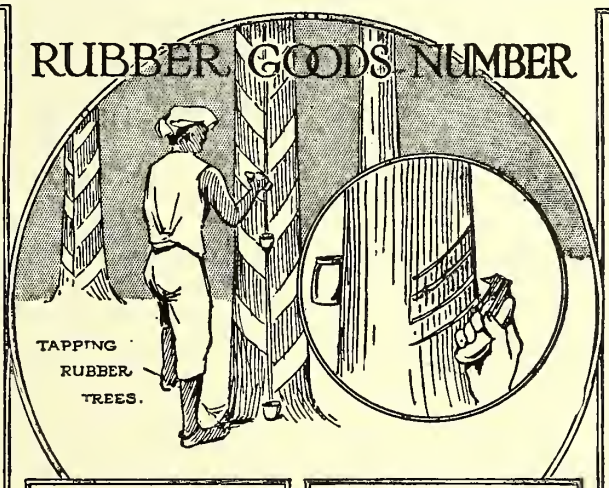
NASAL:
B3179/B Straight bone nozzle, 2 oz. 16/- doz.
B3181/B. Elliptical, bone pipe, 2 oz. 13/- doz.
FOR OTHERS, SEE LIST: PP. 502–3.

EYE:
B3168/B. India-rubber, 4 dr. 6/- doz.
FOR OTHERS, SEE LIST, PAGE 502.

EAR:
B3159/B. Bottle - shape. Bone pipe and cap. 1 oz., 12/-, 2 oz., 16/- 3 oz., 18/- doz.
FOR OTHERS SEE LIST: PP. 499–501.

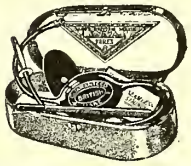
EAR & NOSE SYRINGE. as illustrated: 5/- doz. British made. Wonderful value for the money.

RUBBER GOODS NUMBER



A SELECTION OF ENEMAS

Maw's "Family," black. 29/- doz.
Maw's "Nulli Secundus," seamless. 26/6 doz.
Maw's "Durbar," black, with enamel finish or with velvet finish, 17/6 dozen.
Maw's "Mater," black. 28/6 doz.
Maw's No. 11 Arabesque, full size, 42/- doz.
Maw's No. 11 Arabesque, medium size, 33/6 doz.
Maw's. "Parex," as illustrated. Red velvet finish, 29/- doz.
Maw's "Sterilizable" ("Parex" Brand), 32/- doz.
FOR OTHER PATTERNS SEE LIST PP. 251–4.



BREAST RELIEVERS

Fig. 728. MAW'S. Fitted with best quality green rubber bulb. 2 oz. 20/6; 4 oz. 28/6 doz., as illustrated.

MAW'S "PAREX" fitted with red velvet bulb — in grey box, 2 oz. 20/- doz.

Fig. 729. MAW'S. Fitted with black rubber bulb. 2 oz. 15/9; 4 oz. 21/- doz.

Fig. 730. MAW'S. Fitted with red rubber ball. A cheap line of exceptional value. 10/6 doz
FOR OTHERS, SEE LIST PAGES 88–89.
All British made.

VAGINAL SYRINGES

B3237/B. Bottle shape, with elastic gum pipe. From 19/- to 33/- doz.

The "Vel-fin." Black rubber with black vulcanite curved pipe. British Made, 4/- each, as illustrated.

Put up in attractively labelled box with drop-front bearing label for display of price.

FOR OTHERS, SEE LIST PP. 507–8.

ICE BAGS.
We hold a big selection from 1/2 to 7/9 each.

RUBBER WATER BOTTLES.
In demand by nursing homes, etc.
B1748/9. Super quality, 3/4 to 9/6 each. PAGE 293 LIST.
B1748–9/0. Super quality. From 3/- to 8/6 each
B1750/0. Maw's "Parex," registered. From 2/8 to 6/2 each. PAGE 289 LIST.

RUBBER BED PANS.
B303/0. Circular. Grey 17/8 each, red 22/- each.
B304/0. Oval. Red, 20/11 and 25/10 each.
B305/0. Oval. Grey. Same prices.

RUBBER CUSHIONS.
B1116/0. Air. Circular. From 6/7 each.
B1119/0. Air. Horseshoe shape. From 9/11 each.
B1129/0. Water. Circular. From 8/6 each.
B1131/0. Water. Square. From 14/- each. PAGES 214–17 LIST.

RUBBER WATER BEDS.
B269/0. Rubber, six sizes. Each 30 × 24 in., 42/8; 36×24 in., 52/10; 36×36 in., 77/-; 48×36 in., 104/-; 72×30 in., 127/8; 72×36, 134/2 PAGE 23 LIST.

RUBBER URINALS.
We have a large variety of patterns suitable for day and night use. These are illustrated on pp. 566–572 of List.

RUBBER NASAL DOUCHES.
B3933/B. Simplex, with glass reservoir, black I.R. tubing and vulcanite nosepiece. 8/- doz.
Other patterns from 10/- to 28/- doz. PAGE 219 LIST.

RUBBER SPONGES.
46/K. The "Aldersgate." 8/- to 94/- dozen. Others on PAGE 466 LIST.

ABOVE PRICES SUBJECT TO USUAL DISCOUNT.

DODGE & OLCOTT CO.,

20 MARK LANE,
LONDON, E.C.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS Angosturas.

'Phone: CITY 2468.

Telegrams: "EGDARF, FEN, LONDON."

Cable Address: "CELAITCH, NEW YORK."

CHAS. L. HUISKING,

5 PLATT STREET, NEW YORK CITY,

Broker and Commission Merchant.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.

EAU DE COLOGNE

Manufactured in Great Britain.

LESCOL BRAND No. 58.

FINEST VALUE IN COLOGNES IN THE MARKET.

	Per doz.
1 oz. ...	3/3
2 oz. ...	5/6
4 oz. ...	9/4

IN WICKERED.

	Per doz.
2 oz. ...	7/-

IN WICKERED.

	Per doz.
4 oz. ...	12/6
½ pint ...	17/-
1 ,, ...	29/2
Quart ...	52/9

Very acceptable and necessary Presents for the Sick.

THE LESCOL PERFUMERY CO.,

Tel. No.—Hop 810.
Telegrams—"Vanilin-Camber, London."

LOMOND GROVE, CAMBERWELL, LONDON, S.E.

ESSENTIAL OILS

OF

ANGELICA ROOT

CALAMUS ROOT - CUBEBS

COGNAC GREEN, WHITE

AND ARTIFICIAL

GUAIACUM WOOD - GINGER

JUNIPER - MUSTARD GENUINE & ARTIFICIAL

NUTMEG - PARSLEY (FROM GRAIN)

PIMENTO - PINE SIBER.

ETC. ETC.

ALL KINDS OF TERPENELESS

ESSENTIAL OILS

N. V. POLAK & SCHWARZ'S

ESSENCE FABRIEKEN

(ESTABLISHED 1889)

ZAANDAM — HOLLAND

PETAL DUST

THE SACHET WITH THE LARGEST SALE

A Household Necessity in Peace time.

Indispensable in War time.

Unique. Known in every corner of the world.

Once shown, creates its own demand.

We cordially invite all our friends, the Chemists who stock PETAL DUST, to send us a postcard requesting particulars of our special remunerative offer.

SOLE PROPRIETORS—

THE ROSMARINE MANUFACTURING COMPANY,

LONDON, S.E.

BEETHAM'S

"LAROLA"

(Registered)

Is the Skin Tonic for 1915.

It is effective.
It is attractive.
It is price-protected.
It is well-advertised.
It sells readily.
It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

Beetham's New Showcard.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, Cheltenham.

OVER 100% PROFIT!
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

Sole Proprietors—

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.

Established over 150 years.

GOSNELL'S

A NAME TO CONJURE WITH.

Generations of popularity have made Gosnell's Cherry Tooth Paste an English institution. Whether you offer it in pot or tube, you can find nothing more English to-day in reputation, quality, and good, legitimate profit.

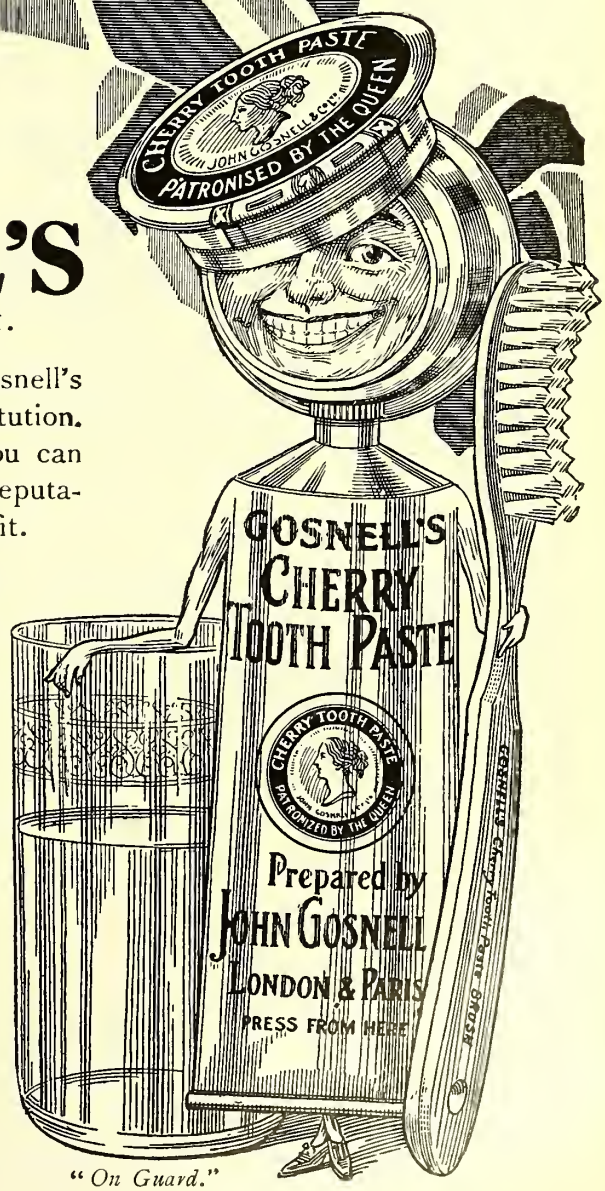
Ask us for our Cherry Tooth Paste ("On Guard") Showcard in 14 Colours. To show it with Gosnell lines is to link up your shop with our advertising.

GOSNELL'S TOILET ARTICLES INCLUDE

Society Eau de Cologne, 1/- to 15/-; Real Old English Lavender Water, 1/6 to 20/-; Cherry Blossom Perfume, 2/- to 20/-; Cherry Tooth Paste, Pots 1/- and 1/6, Tubes 6d. and 1/-; Cherry Blossom Soap (3 tabs), 1/3; Famora Soaps (3 tabs), 1/3; Society Cologne Soap (3 tabs), 1/3; Shaving Sticks, 1/-; C.B. Talcum Powder, 9d.; C.B. Toilet Powder, 6d.

All these carry the Khaki Crown Crusade Stamps now in so much request by way of subscription to the British Red Cross Fund. This scheme carries an offer of FREE GOODS TO YOU. Write for particulars.

JOHN GOSNELL & CO. LTD.
BLACKFRIARS ROAD,
LONDON, S.E.



"On Guard."

Toogood's Packed Toilet Preparations in Collapsible Tubes.

2629 2667 2508 2509 2542 2452

No. 2629.	Toilet Lanoline	...	3 sizes	...	2/9, 3/9 and 5/6 per doz.
,, 2667.	Boracic Ointment	...	2 ,,	...	3/- and 4/6 ,,
,, 2508.	Cold Cream	...		...	3/6 ,,
,, 2509.	Vanishing Cream	...		...	3/6 ,,
,, 2542.	Shaving Cream	...		...	4/6 ,,
,, 2452.	Solid Brilliantine	...		...	6/- ,,

Customer's name free on 3 dozen of any one kind, and showcard supplied.

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E.

KEEP FULL STOCKS ALL THROUGH THE YEAR

OF THE

New Complexion Cream

"VELOIN"

This cream is advertised in a novel manner, and very extensively. The public will want it, and it is bad business to send a customer to a rival shop for anything.
The profit on the retail sale is worth having—and you keep your customer.

Wholesale price, per dozen jars, **24/-**
Retail price - - per jar, **2/6**

SOLE MANUFACTURERS—

The D. J. LITTLE CO.,
37/38 Hatton Garden, London, E.C.

"ALL BRITISH" VACUUM FLASKS

means Vacuum Flasks of which not only the outer casing but **the essential Vacuum Bottles** (hitherto all made in Germany) **are MADE IN ENGLAND by British Workmen.**

Support this New British Industry!

Illustrated Price List from

Aerators, Ltd., Upper Edmonton, N.

MAGNUS, MABEE & REYNARD, Inc.

257 Pearl Street,
New York City, U.S.A.

Cable Address—"MAGLAUR."

Importers and Manufacturers.

ESSENTIAL OILS, VANILLA BEANS, DRUGS & CHEMICALS.

We offer for sale—

Oil Peppermint, American
,, Spearmint
,, Birch (Wintergreen)
,, Wintergreen Leaf
,, Cedarwood
,, Limes, Distilled
,, ,, H. P.

Oil Sassafras, Natural
,, ,, Artificial
,, Wormseed, Baltimore
,, Wormwood, American
,, Sandalwood, W.I.
Balsam Tolu
,, Copaiba
,, Peru

We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.

OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6, per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST & SON, 1187 Chester Road, Stretford. **MANCHESTER.**

F. M. RUDD, Bronson, MICHIGAN, U.S.A.

GENUINE AMERICAN PEPPERMINT OIL

"Columbia" Natural
"Diamond White"
Re-distilled.

Finest qualities for Druggists, Distillers and Confectioners.

Sole Consignees in United Kingdom—
R. W. GREEFF & CO.
Thames House,
Queen St. Place, LONDON, E.C.

A. Boake Roberts & Co., Ltd.,
STRATFORD, LONDON, E.

Distillers and direct Importers of all important

Essential Oils.

Manufacturers and Distillers of

ESSENCES,

SYNTHETIC PERFUMES, &c.

including

Anethol, Citral, Citronellol, Eugenol, Geraniol, Geranylacetate, &c.

Terpeneless Oil of Lemon, Sesquiterpeneless Oil of Lemon.

Write for samples and quotations.

A. Boake Roberts & Co., Ltd.,

IMPORTANT TO PERFUMERS.

WATER-WHITE, PALE and GREEN

MINERAL OIL

(Quite Odourless)

We also undertake the perfuming of these Oils to any Odour desired.

Suitable for TOILET PREPARATIONS, BRILLIANTINE, etc.

In Barrels of about 40 Gallons.

Samples & Prices on application to HERTZ & CO., 9 Mincing Lane, LONDON, E.C.

Pure Rectified Re-distilled Spirit

FINEST QUALITY S.V.R.

Quotations and Samples on application to

James Calder & Co. Ltd.

Distillers, BO'NESS, N.B.

Telegraphic Address: "Distillers Bo'ness."

Telephone No.: 12 Bo'ness.

METHYLATED SPIRIT

Makers of Industrial and Mineralised Spirit

QUOTATIONS & SAMPLES ON APPLICATION TO

RIDDELL & SMITH, Methylators, Bo'ness, N.B.

BARRI-AGAR

(PINK)

MAYSENNA

(WHITE)

TWO entirely new and novel Complexion Powders, each put up in a very attractive container.

Will be extensively advertised immediately.

BARRI-AGAR will be asked for more frequently than MAYSENNA, as it is suitable for all complexions.

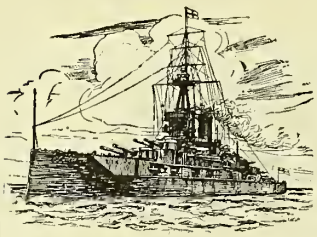
Do not order from your Wholesaler until you receive inquiries, but as soon as they start you may rest assured that it will be no half-hearted affair.

We do not wish to deal direct with the Trade, being Manufacturers only, so kindly obtain your supplies from your usual Wholesaler. Goods may be returned to us at any time, carriage forward, and cash refunded in full.

PRICES :

To the Trade · · 22s. 6d. per dozen.
To the Public · · 2s. 6d. per tin, P.A.T.A.

THE JOHNSON LABORATORIES,
43 Gray's Inn Road, London, W.C.



Despite the Blockade you can Capture Summer Trade.

I can help you by planning Ad. Campaigns, writing and designing Booklets, Folders, &c.

Stock advertising circulated by everybody benefits nobody but the printer.

My ads. are prepared for the individual client to fit special needs.

Send now for Free Booklet.

MAIL ORDER BUSINESS MY SPECIALITY.

F. A. DEGEN, F.I.S.A.C. *(The C. & D. Ad. Specialist),* c/o The "C. & D.," 42 CANNON STREET, LONDON, E.C.

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

THE College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aberdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, and Nottingham. For the June and December Examinations there are other Centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.

"PATRIOTIC"

ELECTRIC POCKET LAMPS

In handsome coloured cases with coloured portraits and flags, &c. Complete, 2/- each. Cases only, 1/2 each.

ARCHIBALD J. WRIGHT, Limited,
41 BEECH STREET, BARBICAN, LONDON, E.C.

WESTMINSTER COLLEGE

Principals:
GEORGE S. V. WILLS, Ph.C.
PERCIVAL H. WOODNOTH, M.P.S.
Telephone No.: 1728 Brixton.

Founded in 1874 by G. S. V. WILLS (Principal).

Students wishing to ensure success in October should enter College on August 18.

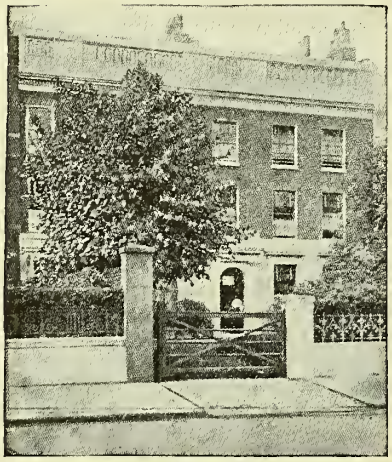
BENCHES ARE NOW BEING BOOKED FOR

August 18	Fee to the October Examination	... £5 5 0
	,, ,, January ,,	... £14 14 0
September 8	,, ,, ,, ,,	... £12 12 0
October 6	,, ,, ,, ,,	... £10 10 0

Half Term, May 17. Fee 5 guineas.

More students have passed the Pharmaceutical Examinations from this College than from any other school.

The splendid April Pass List will appear in our next advertisement.



WESTMINSTER COLLEGE.

There is a short cut from the Westminster College to Bloomsbury Square, and any student can become a Pharmaceutical Chemist if he only **WILLS** it.

BLOOMSBURY SQUARE.

WILLS'S UNIVERSAL POSTAL SYSTEM.

For the MAJOR, MINOR, PRELIMINARY, APOTHECARIES' HALL, FAIRCHILD, BELL'S SCHOLARSHIP, and all Colonial Examinations. FEE £1 1s.

MINOR DIVISION.

In this Division there are three courses, viz., A, B, & C. Course A consists of 100 lessons.

SYLLABUS OF COURSE. FEE £1 1s.

Practical Dispensing, Official and Special Pharmacy, Materia Medica, Botany (Morphology and Physiology), Organic and Inorganic Chemistry, Prescription Reading and Latin, Examination Papers, etc.

COURSE B. FEE £2 2s.

The lessons under this Course contain, in addition to the ordinary information, special notes on the lectures delivered by Mr. WILLS in College. Students joining Course B are presented with a set of Mr. WILLS's Text Books, post free, worth £1 5s.

COURSE C. FEE £3 3s.

Includes, in addition to the lessons and books under Course B, lessons on Practical Chemistry and Volumetric Analysis. 40 Compound, 50 Simple and 20 Organic Powders are sent to each pupil, in addition to all the necessary Volumetric Solutions, Microscopical Slides, fresh Botanical Specimens, etc., etc.

OPINIONS OF THE PRESS.

"Wills's Universal Postal System provides a complete course of 100 lessons for home students."
Pharmaceutical Journal.

"The idea on which this system is based is to arrange for each student his course of study, and to provide him generally with the necessary knowledge."
Chemist and Druggist.

"Students who are unable to attend a school of Pharmacy will find Wills's Universal Postal System a useful means of obtaining a thorough grounding in the required subjects."—*British and Colonial Druggist.*

"To an ardent, anxious pupil, we believe there is a short cut from the Westminster College to Bloomsbury Square, and that any student can become a Pharmaceutical Chemist if he *Wills* it."—*Chemist's Journal.*

FOR PROSPECTUS, PASS LIST, &c., CALL, WRITE OR 'PHONE TO THE SECRETARY, 402 CLAPHAM ROAD, S.W.

LONDON COLLEGE OF PHARMACY

Principal—HENRY WOOTTON, B.Sc. (Lond.)

Next Complete Course begins on SEPTEMBER 8.

MINOR.—Fee to January Examination £10 10 0.

Revision Course, AUGUST 11. Fee to October Examination £5 5 0.

APRIL PASS—28. MAJOR—3. Constituting over one-fourth the total **Minor** and **Major** passes for England and Wales.

The number of Students who have passed the Pharmaceutical Examinations from the London College, since its establishment, exceeds that from any other school.

For Prospectus, &c., apply to The Secretary, LONDON COLLEGE OF CHEMISTRY AND PHARMACY, 361 Clapham Road, London, S.W.

ELT'S COLLEGE

North Finchley, London, N.

220

PRELIM. SUCCESSES

in three years.

15

at March, 1915, with Honours and Distinctions.

The Prelim. Department of the College is under the Special Direction of the Manager whose Whole Time is devoted to the Supervision of Students' Work.

Send for "The Little Red Book," "*New* Points for Prelim."

THE SCHOOL FOR SUCCESS!!

THE

South of England College of Pharmacy

(Concilio et labore)

186 CLAPHAM ROAD, LONDON, S.W.

Principal—H. LUCAS, Ph.C., F.C.S.

Assistant Masters—H. E. ARCHER, Ph.C.; H. STEGGLES, M.P.S.

EXAMINATION RESULTS, APRIL 1915.

At the recent Examination the following ten gentlemen passed the **Minor** from this College:—

Five passed at their first attempt, after only a three months' full time course.

Mr. C. M. CROOKS, Mr. R. NARUNSKY, Mr. J. SMITH,
,, L. V. CURTIS, ,, C. NIGHTINGALE, ,, A. E. VOSE,
,, S. A. MILBANK, ,, W. W. PERKINS, ,, E. S. WILLIAMS,
,, C. MORTON.

N.B.—Sixty per cent. at first attempt!

Half Term—May 17. Fee till July, **£5 5s.**

For prospectus and all particulars apply—**The Principal.**

—Become your own Master—

by preparing for Minor and Major Exams., and **passing** them. DO THIS IN SPARE TIME BY TAKING OUR CORRESPONDENCE COURSE. It is economical, concise, clear, interesting. Many have passed in this way, why not you? Ours is the best course yet devised. Investigate it. Classes begin now.

WRITE FOR FREE BOOKLET: "By the INDEPENDENT ROUTE."

Northern College of Pharmacy

100/102 Burlington Street, MANCHESTER.

SCARF PINS WITH MOVING EYES.—Just the thing for clerks and bosses in drug stores, as they represent the emblem of poison as used in pharmacies.

This particular pin was designed especially for our subscribers. It is made in both dark German silver finish and in gold plate.

Take your choice. They are so made that the eyes inside the skull oscillate with every movement and show the fire of the stones. They are wonderfully interesting and fascinating and are sure to please both the wearer and his friends. The price for one is 2*s.*; with The Spatula 1 year, 6*s.* State which kind you want.

1,000 WAYS AND SCHEMES TO ATTRACT TRADE.—This book is the result of over five years of observation and labour, and describes more than a thousand ideas that druggists and other tradesmen have successfully put into practice to increase their sales. Many of them have transformed losing businesses into profitable ones. Almost any one of them will bring you larger business and give you a bigger income. 208 pages, 9½ x 7, and 120 illustrations. Printed on the best of white paper and bound in handsomely ornamented cover. Price 4*s.*; with The Spatula 1 year, 8*s.*

ONE THOUSAND FORMULAS.—A compilation giving the practical working druggist full information about the making of one thousand of the most common and saleable preparations, by L. W. Marshall, Price 3*s.*; with The Spatula 1 year, 7*s.*

SPATULA VETERINARY FORMULARY.—A collection of practical formulas for all diseases common among horses, cattle, swine, poultry and dogs, by L. W. Marshall. Price 2*s.*; with The Spatula 1 year, 6*s.*

TOILET PREPARATIONS.—A treatise on the manufacture of Casein Massage Creams, Complexion Creams, Cold Creams and Face Creams: Powders, Toilet Lotions, Camphor Ices, Bath Tablets, and other similar preparations, including hundreds of the latest and best formulas. Compiled and edited by L. W. Marshall. Price, post paid, 2*s.*; with The Spatula 1 year, 6*s.*

SPATULA HERB BOOK.—A classified list of Medicinal Herbs, giving botanic names and common names, with properties of each. A concise and practically complete list. Arranged alphabetically under both the scientific and the common name so that any herb may be instantly found. Price 2*s.*; with The Spatula 1 year, 6*s.*

EXTRACTS AND PERFUMES.—A treatise on the most practical methods for the manufacture by the retail or wholesale pharmacist of Flavouring Extracts, Colognes, Toilet Waters, Perfumes, Sachets, Fumigating Pastilles, &c., together with several hundred tested and workable formulas by Prof. W. L. Scoville and other authorities. Cloth, 4*s.* With The Spatula 1 year, 8*s.*

500 SPATULA FORMULAS for the making of Common Remedies, Perfumes, Soaps, Tooth Powders and Washes, Hair Dyes, Cosmetics, Colognes, Liqueurs, Cements, Glues, Mucilages, Blackings, Corn Cures, Rat and Vermin Poisons, Extracts, Fireworks, &c. Price 2*s.*; with The Spatula 1 year, 6*s.*

SPATULA INK FORMULARY.—Recipes and directions for making all kinds of inks for all purposes by Dr. J. H. Oyster, 172 pages, bound in cloth. Price, post paid, 8*s.*; with The Spatula 1 year, 12*s.*

300 READY-TO-USE ADS. FOR DRUGGISTS. By Chas. L. Archbold and other experts. Something for every department and every season. Nearly all have an appropriate illustration which may be used or not as desired. So arranged that they may be cut out as needed and sent to your local paper, or to your printer as copy for counter slips. Price, post paid, 4*s.*, with The Spatula 1 year, 8*s.*

15,000 FORMULAS.—A new and revised edition of the "Cyclopedia of Receipts." By A. A. Hopkins, Query Editor of the *Scientific American*. Probably the most practical and valuable collection of formulas and receipts ever published. Besides the receipts there is a vast amount of information on various subjects. 8 pp. illustrated circular giving contents free. Price 21*s.*; with The Spatula, 1 year, 23*s.*

PRICELESS RECIPES.—3,000 secrets, 368 pages. A book of recipes, and nothing but recipes. Not a cook book. Silk cloth finish. Post paid, 3*s.*; with The Spatula 1 year, 7*s.*

HOW TO MAKE SHOWCARDS.—A practical treatise on the fundamental principles of artistic lettering with pen and brush for the use of retail merchants and their clerks, by Charles A. Miller. Fully illustrated with diagrams, alphabets, sample signs, &c. Heavy coated paper. The handsomest and most useful book on the subject published. 120 pages. Price 4*s.*; with The Spatula 1 year, 8*s.*

THE SPATULA.—The handsomest and most practical pharmaceutical monthly journal in the world. It is beautifully illustrated, is filled with practical articles, and will help you to make money. Subscription, 5*s.* 6*d.* post paid. Sample copy and catalogue of books free.

(Cheques on local banks in Great Britain accepted. Make Money Orders payable to IRVING P. FOX, Treasurer.)

THE SPATULA, 14 Sudbury, Boston, Mass.

"Indispensable."

THE EXTRA PHARMACOPŒIA

JUST PUBLISHED.

By MARTINDALE & WESTCOTT.

SIXTEENTH EDITION (1915). REVISED AND ENLARGED.

PRICE 21s. net; postage 4d., abroad 6d. Separately, Vol. I., 14s. net; postage 4d. Vol. II. 7s. net; postage 3d.

"It is a book that is indispensable to the modern pharmacist, and in this case an old edition is not 'just as good.'"—*Chemist and Druggist.*

"The two volumes together form an invaluable compendium of information."

"A work of great utility."—*The Lancet.* [*British Medical Journal.*

"The Extra Pharmacopœia maintains its high standard and more. All interested will welcome this new edition of an indispensable book."—*Pharmaceutical Journal.*

LONDON: H. K. LEWIS, 136 GOWER STREET, LONDON, W.C.

Also of W. MARTINDALE, 10 NEW CAVENDISH STREET, LONDON, W.

PEDICULUS and PHTHIRIUS.

"VERMIJELLI"

A Preventive and Remedy for Lice and Fleas.

The Remedy is that referred to in the papers for the extermination of these pests.

NON-POISONOUS, NON-INFLAMMABLE, & MIXES WITH WATER.

For Supplies apply to Local Chemists and Stores, or to—
Messrs. Stickland & Co., 23 Cromwell Place, South Kensington, S.W.,

Or Wholesale from Manufacturers—

S. BOWLEY & SON, Wellington Works, Battersea Bridge, S.W.

PRICES—1 lb. Tins, 1/- each, post free, 1/4 each.
7 lb. „ 6/- „ post free, 7/- „

SELLS READILY (ALL BRITISH).

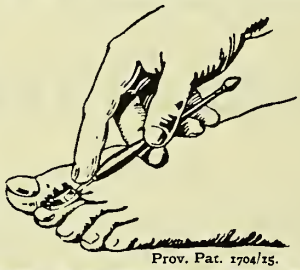
A Splendid Line having Extraordinary Sales.

Retail at 1/- & 1/6 each.

PRICE 8/- & 12/- per dozen, *Post. 3d. extra.*

Wholesale Agents Wanted.

THE "SERVICE" CORNPLANE



NO MORE CRIPPLED FEET

Prov. Pat. 1704/15.

F. C. BARKHAM, 118 Queen's Road, BURY ST. EDMUNDS.

Send to ELEY *for these!*

ELEY BROS. Ltd., possess facilities second to none for the manufacture of Silver- and Nickel-Plated Brass Boxes for Shaving Sticks, and Aluminium Boxes for Dentifrice, Soaps, etc; also Oval and Round Tops for "Talco" and other Powder Tins, Caps, and Dredgers for Toilet and other Powders.

SOLID DRAWN TUBES, SMALL BRASS AND ALUMINIUM STAMPINGS.

ELEY BROS. Ltd., are large manufacturers of this class of goods to the wholesale trade. Prompt attention given to all inquiries, prices on application.

Address all inquiries for these goods to Dept. 21—

ELEY BROTHERS LIMITED,
254 GRAY'S INN ROAD, LONDON, W.C.

BIRMINGHAM: 29 and 30 Whittall Street.
GLASGOW: 82 Mitchell Street.
LIEGE (Belgium): 107 Rue Louvrex.
FLORENCE: 4 and 6 Via Cavour.

Canadian Branch—
ELEY BROS. (CANADA) LTD., North Transcona, Man.

It's all very well for the traveller to ask you to order "as usual"—but is his firm ADVERTISING "as usual"?

It's worth thinking over.

THE fact of that firm's announcements not appearing in the "Daily Mail" week after week as they used to may be making all the difference between stocks remaining on your shelves or being used in the homes of your customers. Get the manufacturer to advertise again in the "DAILY MAIL."

It's not what the traveller SAYS, but what the manufacturer DOES that moves the goods. Think it over.

SITES for WORKS, FACTORIES, WAREHOUSES, etc.,
ADJOINING THE
GREAT WESTERN RAILWAY.

Within the extensive districts served by the Great Western Railway Company's system of upwards of 3,000 miles of railway, there are in various localities considerable areas of available land admirably situated and otherwise suitable for the establishment of Works, Factories, etc., in connection with different kinds of Industrial undertakings. These sites are within easy access of some of the principal Ports, Coal and Ironstone Fields, and Iron and Steel producing centres.

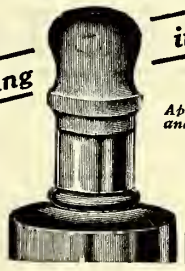
Information regarding suitable sites, siding facilities, conveyance rates, etc., will be readily afforded on application to

Mr. G. A. ROBERTS, Paddington Station, W.
FRANK POSTER, General Manager.

SEMREH
SELF-FIXING & AIR-TIGHT
BOTTLE CAPS

PROMPT DISPATCH

The Best Capping in the World.



NO INCREASE in prices.

Apply now for Booklet and full particulars.

The VISCOSE DEVELOPMENT CO., LTD., Bromley, Kent.

Far superior to Pleated Paper or Leather Cappings

Are You Interested in

SAFETY RAZORS

: ENTIRELY :
BRITISH MADE.

SEVEN PATTERN FRAMES
MADE UP INTO
TWENTY-FIVE VARIETIES

TO RETAIL FROM
1/- TO 10/6
EACH.

Write for Catalogue.

WILLIAM P. KELLAND,
36 Camomile Street, LONDON, E.C.
And 52 St. Enoch Square, GLASGOW.

"Stretton"

The English

Natural

Table Water

The Purest in the World.

Copy of Analysis sent on application.

The Stretton Hills Mineral Water Co.
Church Stretton,
Salop.

London Depot: RICHARD DAVIS, 20 Maddox Street, W.
Manchester : JEWSBURY & BROWN, Ardwick Green.

PASCALL'S

GOLDEN MALTEX

Contains 25% Pure Malt Extract

of especial food value for Children.

6d. & 1/- BOTTLES.

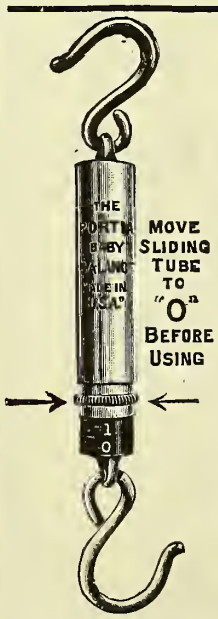
4 ozs. 3½d.

¶ Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

¶ Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

A Profitable Seller



THE

"PORTIA"

(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

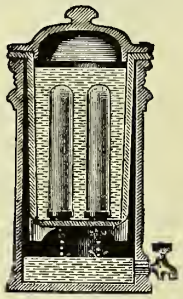
Price	Retail
11/6	1/6
dozen.	each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.,

184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.



CHEAVIN'S NEW "SALUDOR" FILTERS.

GERM-PROOF. PASTEUR SYSTEM.

British Manufacture throughout.

BETTER & CHEAPER

than the Continental makes.

Send for new Catalogue, now ready.

Sole Manufacturers—

The Fulham Pottery and Cheavin Filter Co., Ltd.
FULHAM LONDON, S.W.

"FILBRITE" REGD.

ASBESTOS

for

Perfect Filtration of all Liquids.

BRATBY & HINCHLIFFE, LTD.
ANCOATS, MANCHESTER.

For
FOUNTAIN
PENS
and all Pens
the Best.

Dichroic Ink

Makes
Writing
Easy

Proprietors:

Bewley & Draper, Ltd., Dublin.

CLINICAL
THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.
40 DIFFERENT KINDS.
Special Quotations to Wholesale Buyers

THE
"MATER"
LENS FRONT (Regd.)
CLINICAL THERMOMETER.
P.A.T.A.

MERCURY COLUMN SEEN AT A GLANCE.
Made in Two Rapidities, 1 Minute and ½ Minute.

New Price List of Thermometers for every purpose, post free.

PERKEN, SON & CO. LTD.

ESTABLISHED 1852.
Contractors to H.M. Government.
99 Hatton Garden, LONDON.

FORD, SHAPLAND & Co
6, Gt. Turnstile,
HIGH HOLBORN,
LONDON, W.C.

LABEL &
GENERAL
PRINTERS,
LETTERPRESS,
LITHOGRAPHIC,
TRI-COLOUR,
ENGRAVING,
BOOKBINDING,
CARTONS,
ENVELOPES,
SHOW CARDS,
PRICE-LISTS,
ETC.

TELEPHONE 65, City
TELEGRAMS, FORSHAPCO, LONDON.
Works:-
Whetstone Park.

"ACME"
WEED KILLERS

Have now a large sale through CHEMISTS, and early application should be made for illustrated Counter Bills & Showcards

Awarded Gold Medal Anglo-American Exhibition.
Commended by Royal Horticultural Society.

KEEP GARDEN
PATHS CLEAN

POWDER
WEED KILLER.

Packed in small decorated tins.
Immediately soluble in cold water.

All Tins Free. No return Empties.
SPECIALLY ADAPTED FOR EXPORT.

LIQUID WEED KILLER.
Strength: 1 gall. sufficient for 25 galls. of Water.
AND DOUBLE STRENGTH.

ARSENITE OF SODA, 80%
ARSENATE OF LEAD. QUASSIA CHIPS.

The Acme Chemical Company, Ltd.
TONBRIDGE, KENT.
And RIVER STREET, BOLTON, LANCASHIRE.

ESTAB. 1859

THE CHEMIST & DRUGGIST

Summer Issue
July 31, 1915

PRICE LISTS & CIRCULARS INSERTED

For terms apply to
THE PUBLISHER,
42 Cannon Street,
LONDON, E.C.

BRANCHES: MELBOURNE, SYDNEY, ADELAIDE

GOODRICH

CHEMISTS' SUNDRIES

MOULDED
RED RUBBER COMBINATION AND FOUNTAIN DOUCHES.

Made of the same wonderful "Goodrich" Rubber as the Hot Water Bottles, these model douches are a distinct advance on anything yet attempted. Their wide stiffened necks do away with the necessity for a filler. Made in two sizes only, holding approximately 2 and 3 quarts and giving a rapid flow.

MOULDED BROWN RUBBER "WONPEACE" AIR CUSHIONS.

In addition to being seamless moulded, they are smartly made in a fine soft quality of high-grade rubber, fully guaranteed. Sizes 6 and 8 stocked.

Also Catheters, Atomizers, Crutch Shoes, Bulbs and Bulb Outfits, Rubber Corks, Cash Mats, Stomach Tubes, Surgical Tubes, Tubing, &c.

THE B. F. GOODRICH CO., LTD.
117-124 GOLDEN LANE, LONDON, E.C.

Send for Illustrated Catalogue and Price List.

Moulded Red Rubber Hot Water Bottles.

Two points about these bottles are worth attention. Being moulded they reduce leakage trouble to a minimum, and being "Goodrich" the rubber lasts out pliable and strong to the utmost limit of rubber endurance. Made in 2 sizes. No. 2 to hold approximately 2 quarts and No. 3 to hold 3 quarts.

Lysol

BRITISH MADE AND OWNED.

Satisfy Your Customers' Demands for the Right Article.

GENEROUS TERMS TO CHEMISTS.

Showcards, Literature and Samples Provided.

SEND FOR TERMS.

CHAS. ZIMMERMANN & CO. (CHEM.), LTD., 9-10 St. Mary-at-Hill, LONDON, E.C.

BEESWAX

YELLOW Unbleached.

WHITE Bleached.

GENUINE AND B.P. QUALITIES

We are new advertisers in this Journal since the War broke out. We solicit your inquiries. Send a sample of the Wax you want—we can do it!

Write the Importers and Bleachers for 25 Years:

HAYES & FINCH, Ltd. *Telegrams*: "BEESWAX."

Works: Vernon St., LIVERPOOL. *'Phone*: 6255 Central. Liverpool.

HOLIDAY & CO.

City Mills, Durham.

Sole Manufacturers of the following celebrated Specialities:

"VELKOLINE." The Snow-white Whiting, 3d., 2d., and 1d. packets.

"Daxo" Adhesive Paste Powder, 3d., 2d., and 1d.

Holiday's Floor Polish, 3d. and 6d. tins.

Holiday's Furniture Paste and Cream, 1d., 3d., and 6d. [packets.

Holiday's Boot Polish, Black & Brown, 1d. & 2d. tins.

Holiday's Glossy Black, 3d. and 6d. tins.

Holiday's Varnish Stain, 3d., 6d. and 1/- bottles.

SAMPLES FREE. All Goods Carriage Paid. All Packages Free.

CELTOL, ANTISEPTIC, LYSOL SUBSTITUTE.

CELTYL, Disinfectant Fluid, 18-20 Co-eff.

CELTIC CROSS, Ordinary Disinfectant Fluid.

CELTOLENE, Antiseptic Liquid Soap.

Sheep Dip, Crude Carbolic Acid, Soap Powder, Domestic Liquid Soap and all other Coal Tar Products. All British made by the CELTIC CHEMICAL CO., GLASGOW.

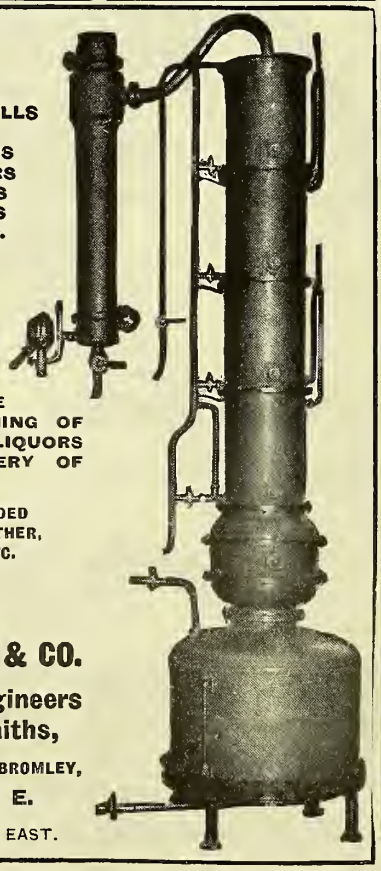
Sole Consignees: **AUGUST REICHWALD, Ltd.**

(Established 1872. Entirely British owned and controlled),

Finsbury Pavement House, LONDON, E.C.

COPPER

VACUUM STILLS
DIGESTERS
JACKET PANS
PERCOLATORS
CONDENSERS
EMULSIFIERS
ETC. ETC.



PATENT STILL

FOR THE STRENGTHENING OF ALCOHOLIC LIQUORS AND RECOVERY OF SOLVENTS.

HIGHLY RECOMMENDED FOR ACETONE, ETHER, PETROL, ETC. ETC.

JOHN DORE & CO.

Distillers' Engineers & Coppersmiths,

28-30 HIGH STREET, BROMLEY, LONDON, E.

Telephone: 136 EAST.

HAVE YOU RECEIVED OUR NEW CATALOGUE OF

Bottling, Tube and Tin-Filling Machines, Mixers, Emulsifiers, Etc.

Up-to-date Plant at Low Prices.
Something to meet every need.

WRITE—

Roberts' Patent Filling Machine Co.,

33 Roundcroft Street, BOLTON, England.

BRITISH MADE

SCENT SPRINKLERS
COLLAPSIBLE TUBES
Decorated Tin Boxes & Canisters

Manufactured by

The JOHN DALE Mfg. Coy.,

NEW SOUTHGATE, LONDON, N.

ROBINSON & SONS, LTD.

MANUFACTURERS OF ALL KINDS OF CARDBOARD BOXES,
CHESTERFIELD.

THE TRADE MARK OF QUALITY.

ONE OF OUR STOCK LINES.

CARTONS FOR BIRD SEED.

THE PACKING OF BIRD SEED IS A SIDE-LINE WHICH CAN BE PUSHED TO ADVANTAGE BY MANY CHEMISTS. OUR CARTONS WILL HELP YOU TO MAKE YOUR BIRD SEED DEPARTMENT A SUCCESS. WRITE FOR SAMPLES.

BOXES

(24)

STIPENDUM CORK STOPPERS

in all sizes suitable for KALIS, CITRATES, DISPENSING, and all FLUIDS.

STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS, PASTES, AND OINTMENTS.

GREASE PROOF.

For Samples & particulars apply to
The
Stipendum Stopper Co.
1 Newman Street,
LONDON, W.
Tel. No. 3769
GERRARD.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	6d.	3 6
* " " " " "	1/-	7/-
* " " " " bottles in cartons	1/6	10/6

** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 1/- 8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

Telegrams:
"CHEMICKING, FEN, LONDON."
Telephone No.:
AVENUE 6660 (3 lines).

63 Crutched Friars,
London, E.C.

Reitmeyer Calburn & Kindersley,
LIMITED

Managers to—

The Crown Chemical Works, Ltd. | **The Anglo-Continental Chemical Works, Ltd.** | **The Société de Champlan Bastia.**

for many years the Sole Sellers in Great Britain and English-speaking countries of the Chemicals manufactured by some of the best-known

FRENCH, SWISS, ITALIAN, AMERICAN FIRMS.

ACIDS:
ACETYLSALICYLIC, BENZOIC, CITRIC, DIETHYLBARBITURIC, SALICYLIC, PHOSPHORIC, PYROGALLIC, TANNIC, GALLIC, & TARTARIC.

ALKALOIDS:
ADRENINE, ARECOLINE, COCAINE, COTARNINE, ESERINE, STRYCHNINE, &c.

CACODYLATES, CREAM OF TARTAR.
DIACETYLMORPHIA, ETHYL CHLORIDE.
GLYCEROPHOSPHATES, GUAIACOL, and preparations.
HEXAMINE. LITHIUM SALTS.
MERCURIALS: METHYLSULPHONAL.

PHENACETIN, PHENAZONE,
PHENOLPHTHALEIN, DIAMIDOPYRINE,
PHOTOGRAPHIC CHEMICALS (Pyrogallic Acid, Metol, Amidol, &c.)
PHYSIOLOGICAL PRODUCTS (Pancreatin, Diastase).
POTASSIUM SALTS.
QUININE SALTS, SALOL, SALICYLATES.
RESORCINE.
SILVER SALTS (Proteinic, Nucleinic, &c.)
SUGAR OF MILK, SULPHONAL,
THYMOL, TRIONAL.
UROPURGOL.
VANILLIN, YOHIMBINE.

Limited Stocks of above products in London.

DIRECT SHIPMENTS FROM GENOA, MARSEILLES, NEW YORK, PHILADELPHIA, AND BOSTON.

Photography Shopping Week

May 17—22

Write To-day
for
Business-bringing

WINDOW DISPLAYS SHOWCARDS, etc.

FOR THE

'WELLCOME' Photo Exposure Record

AND

'TABLOID' Brand Photo Chemicals
(Trade Mark)

These requisites simplify photography. Their trouble-saving, success-ensuring advantages will rekindle and sustain enthusiasm in many an amateur. Show them and push them. They will help to make your **Photography Shopping Week a brilliant success.**

SEND A POST CARD STATING YOUR REQUIREMENTS TO-DAY

Address—

Burroughs Wellcome & Co.
10, Snow Hill Buildings, London, E. C.

G 644

All materials for window display of 'Wellcome' Photo Exposure Record. With or without clockwork giant facsimile Exposure Calculator. Please say which is desired when writing.
(These displays are on loan)

Handsome oak screen, glazed, with actual photographs developed and toned with 'Tabloid' Photo Chemicals, also dummies, etc. A splendid centre-piece for your window.
(This display is on loan)

Special selection of handsome, effective showcards for "Shopping Week" window dressing. Also literature for counter distribution.

COPYRIGHT

The Success of Last Season.

DR. CARTER'S
SALINE or
LIVER SALTS.

Retail 4½d. per tin. Wholesale 3/3 per doz.
" 8½d. " " " 6/3 " "

The wholesale price is subject to our usual profit-sharing discount.

The sale of Dr. Carter's Saline or Liver Salt is reserved to Chemists only. The Salt is packed in handsome enamelled lever-lid tins. Large Showcards and Window Bills supplied. This Salt is a thoroughly reliable product, and most efficacious. Chemists have :: found this a Good Selling Line, and quickly repeats. ::

CUPAL, Ltd., BLACKBURN.

PEPTONE
(FAIRCHILD)

This Peptone is of an excellent quality for every purpose for which Peptone may be employed—technical or alimentary.

PEPTONE-FAIRCHILD may be used in all bacteriological formulæ, in the usual quantities.

Supplied in ¼ lb. bottles at 4/-, ½ lb. bottles at 7/-, 1 lb. bottles at 13/- each.

Subject to B. W. & Co.'s Terms.

PRICES FOR QUANTITIES IN BULK TO BE HAD ON APPLICATION.

Report from the "CHEMIST & DRUGGIST." *February 6, 1915.*

PEPTONE FOR BACTERIOLOGICAL and other purposes has been exceedingly scarce since the war began. Fairchild Bros. & Foster, New York, as makers of it, took steps to send supplies here, and after some delay, owing to shipping difficulties, stocks have been received. We have had an opportunity of examining the product, and find it to be physically a better peptone than has hitherto been imported from Germany. It is a white powder, soluble in water, and only slightly bitter, showing that the peptonising-process has been well controlled. Peptone is largely employed in bacteriological work, and in some technical processes, as well as a nutrient. The Fairchild product is well suited for all these purposes, and pharmacists can get it in ¼ lb., ½ lb. and 1 lb. bottles, while larger users who want bulk quantities can obtain quotations on application to Fairchild Bros. & Foster, 64-65 Holborn Viaduct, London, E.C., or their agents, Burroughs Wellcome & Co.

Made by
Fairchild Bros. & Foster,
NEW YORK, and 64/65 Holborn Viaduct, LONDON, E.C.

Agents:
Burroughs Wellcome & Co.,
LONDON - SYDNEY - CAPE TOWN

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the Chemical, Drug and allied trades in the British Empire and other countries in the Old and New Worlds. It has a larger paid subscription circulation than any other Drug Trade Journal, and is the official organ of nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

Subscription 10s. a year in advance. Postal orders and cheques to be crossed "Martin's Bank (Limited)." Terms for advertising can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.
Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 19 (Series No. 1841), Vol. 86.

	PAGE
Bankruptcy Report	39
Birth	54
Business Changes	37
Correspondence	59
Deaths	54
Deeds of Arrangement	39
Editorial Articles—	
Spirit Proposals:	
Introductory	46
I. Anticipation	47
II. The Proposals	47
III. Differentiation	48
IV. Enforcement	49
V. Duty Negotiations	49
Fly Business	49
Dr. Waldo on Laudanum	50
English News	35
Gazette	39
Information Department	44
Insurance Act Dispensing	52
Inventions	50
Irish News	36
Legal Reports	38
Manchester Chemicals	55
Marriages	54
Observations and Reflections	45
Personalities	55
Pharmaceutical Society—	
Council-meeting	39
Annual Report	42
Poisoning Cases in 1913	37
Retrospect	60
Scottish News	37
Trade Notes	44
Trade Report	56
Westminster Wisdom	51
Wills	55

In the Coloured Supplement.

Association Affairs.
Canadian News.
Coming Events.
French News.
India and the East.
Netherlands Notes.
New Books.
Royal Institution.
Society of Chemical Industry.
South African News.
Trade-marks.

Summary.

Owing to exceptional pressure on the succeeding pages, we have included in the Coloured Supplement a number of articles and notes of current interest, as detailed above.

Pharmacists at the Front describe their experience of R.A.M.C. work (p. 59).

Some new business for chemists to do in regard to the fly pest is noted on p. 50.

Australian contributions are the feature of the Belgian Pharmacists' Fund this week (p. 34).

Interesting particulars in regard to the manufacture and export of morphia are given in our Parliamentary report (p. 52).

Is the new tincture of strophanthus a success? A correspondent expresses his doubt (p. 59). An opening for another is mentioned on p. 34.

Bromides, bergamot, lemon, orange, and mandarin oils, theobromine, and vermilion are dearer. Quinine, gingers, galangal, and cream of tartar are firmer. Camphor oil, mercury, menthol, rape, castor, cotton, linseed, and cod-liver oils are more or less cheaper. A drug-auction will be held next week (p. 56).

The spirit-duty has been doubled, being now 29*s.* 6*d.* on each proof gal. The beer and wine duties have also been increased. Mr. Lloyd George has indicated exemption of spirituous medicines from the increased spirit-duty. We deal exhaustively with the whole matter in an article which begins on p. 46. The Pharmaceutical Society's action leading up to an interview on Thursday with the Chairman of the Board of Customs and Excise (p. 49) was described by the President at Wednesday's Council-meeting (p. 41). Our Parliamentary correspondent communicates several notes on the subject (p. 51). *Mr. Lloyd George now promises an arrangement about the duties* (p. 49).

European War.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—Cicero.

Thirty-third List.

Adams, Wm. (lately with Mr. John Buchanan, chemist, Leven), R.A.M.C.

Arnold, Corporal Robert John, chemist and druggist (of Paignton), R.A.M.C.

Brown, Sergeant James (former apprentice of Mr. Alexander Gall, chemist, Fraserburgh), R.A.M.C.

Drake, Corporal Frank (lately with Mr. W. E. Metcalfe, Ph.C., Shipley), R.A.M.C.

Graham, David (lately assistant with Mr. D. Moir, chemist, Shawlands, Glasgow), R.F.A. (Motor Machine Guns).

Hall, Second Lieut. Clarence A. (son of Mr. A. W. Hall, chemist, 509 Fulham Road, London, S.W.), Northern Cyclist Battalion.

Ingham, Private Percy (lately clerk and assistant traveller with Mr. R. Armstrong Bell, manufacturing chemist and wholesale druggist, Huddersfield), 5th Battalion (Duke of Wellington's) West Riding Regiment, T.F., now in France.

Ireland, MacRae (lately assistant with Mr. A. Husband, chemist, Leven), R.A.M.C.

Smithurst, C. A. (lately with W. B. Cartwright, Ltd., Rawdon, near Leeds), Leeds Royal Engineers.

Lieutenant Beveridge, of the Australian contingent, who has just received his commission, is a brother of Mr. Joseph Beveridge, chemist and druggist, Sydney. The brothers are natives of Kirkcaldy.

Mr. Ralph H. Dodd, of the Honourable Artillery Company, a son of Mr. W. Ralph Dodd, F.C.S. (Allen & Hanburys, Ltd.), has been wounded in the leg by shrapnel, and is now in the University War Hospital, Southampton, making very satisfactory progress to recovery.

Lieutenant Noel Briggs, only son of Mr. W. Briggs, chemist, Mayor of Lancaster, and Corporal B. J. Vince, son of Mr. J. Vince, chemist and druggist, Cheapside, Lancaster, were wounded while serving with the 5th (King's Own) Royal Lancaster Regiment in the fighting near Ypres on April 24.

Notices as to Exports of Chemicals, etc.

Denmark.—The Board of Trade is in receipt of telegraphic information to the effect that the exportation of the following articles has been prohibited: Aluminium salts, tar colours and organic by-products of tar-colour production, including aniline and aniline combinations; benzol, cresol and meta-cresol, antimony combinations, copper vitriol, ferro-manganese, ferro-molybdenum, ferro-nickel, ferro-titanium, ferro-tungsten, ferro-vanadium, graphite and graphite crucibles, manganese and manganese ore, cotton-seed, linseed-oil varnish.

Germany.—According to a decree of April 15, the exportation is prohibited of all kinds of greases, such as shoe-polish, etc., in the preparation of which wax or ceresin and turpentine oil have been used; of cleaning-materials made with the aid of fats, oils, or soap; of mineral substances in the preparation of which stearin, palmitin, paraffin, wax, or rosin has been used; of white lead, white zinc, lithopone-white, triturated with an oily substance; of salts of resinous or fatty acids.—According to a decree of April 18, some alterations and additions have been made on the lists of articles considered as absolute or conditional contraband of war. Gunpowder and explosives of all kinds are absolute contraband. The following articles have been added to the list of conditional contraband: Foodstuffs, forage and provender of all kinds, rubber and guttapercha and articles made of these materials; lubricants, sulphur, sulphuric acid and nitric acid; wolfram ores (wolframite, scheelite), molybdenum ores, nickel, chrome, hæmatite iron, manganese and lead ores; the metals wolfram, molybdenum, vanadium, nickel, selenium, cobalt, crude hæmatite iron, manganese, aluminium, and copper; antimony and its compounds and oxides; iron alloys, inclusive of wolfram, molybdenum, manganese, vanadium, and chrome iron. The following articles will not be considered contraband: Raw cotton-wool, raw silk, raw hemp, rosin, lac, hops, natural and artificial manures, earth, clay, lime, porcelain and glass, soap and dyes, and the material that is exclusively used for the manufacture of soap and dyes; varnishes, chloride of lime, soda, sodium hydroxide, sodium sulphate, ammonia, ammonium sulphate, and copper sulphate.

Holland.—According to a decree of April 19, the exportation of crude phosphates is prohibited.

Italy.—A Royal decree, dated April 15, prohibits the exportation of naphthaline and its nitro-derivatives, nitrate

of ammonium, alums and salts of potassium, metallic peroxides, and coconut oil.—A Royal decree, dated March 11, provides for the refund of the manufacturing tax and of the equivalent Customs surtax levied on pure acetic acid produced in or imported into Italy and destined for industrial use.

Switzerland.—The Board of Trade is in receipt of telegraphic information to the effect that a Federal decree, dated April 24, prohibits the export of sesquisulphide of phosphorus; sodium sulphide; sodium chlorate; wax, whether vegetable, animal, or mineral, raw, bleached, dyed, or otherwise prepared.

Belgian Doctors' and Pharmacists' Relief Fund.

A meeting of the Executive Committee was held on April 29, when good progress was reported. A letter was read from Dr. Pechere, the President of the Aide et Protection aux Médicins et Pharmaciens Belges, in which the warmest thanks of that body were returned for the money which had been forwarded. The subscriptions from pharmacists received up to May 4 include a sum of 400*l.* from the Australasian Pharmaceutical Conference, which amount includes a subscription of 300*l.* from Victoria, 65*l.* from Queensland, and 35*l* from Tasmania. The following is a list of the subscriptions received: Australian Pharmaceutical Conference (per the Agent-General): Victoria, 300*l.*; Queensland, 65*l.*; Tasmania, 35*l.* P. L. Ridge, 5*s.* 8*d.*; Northants Pharmacists' Association (per R. H. Robinson), 2*l.* 2*s.*; T. H. Powell, 5*s.*; Wimbledon Pharmacists' Association (per F. T. Bowen), 2*l.* 2*s.*; J. W. Venters, 5*s.*; F. A. Williamson, 7*s.* 3*d.*; A. Chapman, 11*s.* 7*d.*; R. Fouracre, 5*s.* Subscriptions may be sent to Mr. W. J. Uglow Woolcock, 16 Bloomsbury Square, London, W.C.

Notes from Russia.

A special circular has been issued by the London Chamber of Commerce on "Anglo-Russian Trade Relations," which gives particulars of the work of the Russian Section of the London Chamber of Commerce and the Russo-British Chamber, which were both established contemporaneously eight or nine years ago, the latter having branches in Warsaw, Odessa, and other leading Russian cities. The work accomplished in the intervening years has placed the organisations in question in a position to meet the new situation brought about by the war, and the circular gives a detailed account of the progress that is being made.

We have received particulars of the competition which has been organised by the Russian Ministry of Finance with the object of discovering improved denaturing-agents for spirit. The prizes are 30,000, 15,000, and 5,000 roubles respectively. Six similar competitions with the same prizes are also opened for the purpose of discovering new uses for spirit or its derivatives for heating, lighting, as a motive-power, and in chemical technology. The essays must be submitted by January 1, 1916, to the Glavnoe Oupravlenie Neokladnich Sborow i Casennoi Prodajy Piteï (Department of Unassessed Taxes and Spirit Monopoly), Petrograd. The Russo-British Chamber of Commerce has issued an English translation of the conditions of the competition.

Russia in the past has been even more dependent on Germany than the United Kingdom for many chemical and other industrial products, but there is a concerted movement in Russia to "do without the Germans." Time alone will prove whether this will be successful, but already there is a commercial venture on foot to manufacture pharmaceutical products. This is referred to in the course of an article in the "Times" Russian Supplement by Mr. Vladimir Savitzky, Secretary of the Russo-British Chamber of Commerce, in which he states that on the initiative of the Kiev University professors and of several manufacturers a series of chemical-industries is being organised on factory principles. A factory for the manufacture of chloroform is already being built. Moreover, it is proposed to manufacture salicylic acid and its preparations. In the Urals also work is beginning on the manufacture of chloroform and other pharmaceutical products, and in the Caucasus on the production of potassium chlorate from potash. It is curious to note that all the present "Russian" chemical-dye factories are branches of German enterprises. Ninety per cent. of the shares of these "Russian" companies are in the hands of individuals residing in Germany. In these factories no Russian raw materials have been utilised, but only German half-manufactures paying very low Customs duties. Of such half-manufactures Russia imported annually more than a million pouds (16,000 tons). With her varied conditions of soil and climate, Russia possesses many species of medicinal plants. Hitherto the Germans were masters not only of the Russian santonin-manufacture, but of the world market; that has now passed from their hands.

Miscellaneous.

Raphael Tuck & Sons, Ltd., have been notified by the Board of Trade that an announcement has appeared in the German official Gazette stating that their Berlin branch for the sale of their publications has been sequestrated, and the business and assets sold by the German authorities.

The Board of Trade has granted licences to Greenwood & Lee, Ltd., and Mr. A. Ashworth to work patent 7592/05 belonging to the Badische Anilin- und Soda-Fabrik. This patent, which deals with the manufacture of formaldehyde sulphoxalates, is entitled "Improvements in the Manufacture and Production of Discharging Agents."

Boots' Comrades in Khaki is the title of an interesting periodical which provides a friendly link between the employés of Boots, Cash Chemists, Ltd., who are serving with the Colours and their colleagues at home. Over 1,000 of the employés of the company have enlisted, and the doings of those on active service are chronicled in "Comrades in Khaki."

Ambulance Dispensing.—Lieutenant-Colonel Josiah Oldfield, commanding the 2/3rd East Anglian Field Ambulance, New Road, Peterborough, informs us that there is a vacancy for a qualified dispenser, and applications should be made to him by letter, or to Lieutenant Sinfield, Drill Hall, Walthamstow. The Colonel says: "Although the man would enlist as a private, the moment he obtained his corps pay and learned his military duties he would get promoted rapidly to the rank of lance-corporal, to corporal, and, as soon as he proves fit, to the rank of sergeant." We note that a field ambulance consists of ten officers (of whom eight at least must be medical men) and 219 trained soldier-nurses. Each field ambulance is divided into three sections, and each section is complete in itself and consists of about forty stretcher-bearers and twenty hospital attendants. To each section a qualified dispenser is allotted, who eventually holds the rank of sergeant.

Chemicals for the Allies.—The New York "Commercial" (April 10) states that the armies of the Allies have been heavy purchasers of chemicals in the New York market recently. Upwards of 10,000 tons of blue vitriol has been bought at prices ranging from 5c. to 6½c. a lb., and the demand for caustic soda has reached such proportions that it is estimated that fully 50,000 tons has been shipped to Europe. Many domestic manufacturers of caustic soda have already disposed of their output for 1915, and have advanced their quotations to $3.00 to $3.50 per cwt. f.o.b. works. Saltpetre has also been moving out on export account. Among other items which are being inquired for daily by the Allies are picric acid, acetone, benzol, and sulphuric and nitric acids. The heavy exports of benzol have practically cleared up all the stock in the country, and it is understood domestic makers have sold their entire output up to the end of 1915. Stearic acid is also being taken in large quantities for export. Prices have consequently risen 1c. to 2c. a lb.

Respirators for the Troops.—Although the War Office has indicated that immediate requirements of respirators for the use of the troops are satisfied, the demand for these articles still continues. "The Times," dealing with the matter on May 1, states that two new forms of respirators by Allen & Hanburys, Ltd., have been approved by the War Office, and are being made as quickly as possible for immediate despatch to the Front. One of these, designed by Mr. W. H. Johnstone, of Allen & Hanburys' Vere Street establishment, is made of wire mesh shaped conically like the nose of a horse and covered with stockingette. An alkali cartridge is fixed in front and when the respirator is dipped in water the alkaline solution spreads over the surface of the mesh. These respirators are specially adapted for neutralising the fumes of chlorine. A second type, which is stated to be suitable for counteracting the fumes of bromine which affect the eyes, is a mask of loose fabric fitted with a "window" of mica, and having at the mouth an alkali filter. This type has been designed by Mr. R. P. Edwards, of Allen & Hanburys' Wigmore Street branch, on the suggestion of Colonel Cantlie, F.R.C.S. Two thousand of them have been ordered for the Grenadier Guards. The price to chemists is 24*s.* 3*d.* per doz., subject. An alkali is necessary to counteract the gases used by the Germans. While the ordinary moist cotton-wool pad is excellent in the laboratory or for use on a single occasion, it is of little value when used repeatedly.—Southall Bros. & Barclay, Ltd., have written to the Birmingham Press suggesting the use of respirators saturated with solution of sodium salicylate and dried as a means of combating the noxious gases. They state that this chemical absorbs and renders innocuous fumes of chlorine or bromine. This recalls the fact that men in charge of nitric-acid distilling-pots in chemical-factories wear felt respirators saturated with Friar's balsam when the pots are being recharged.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Institute of Chemistry.

At the April examinations held in London, of five candidates for the Intermediate examination, two passed—viz., T. L. McEwan, B.Sc. (St. Andrews), and E. Mendoza. Of ten candidates for the Final (A.I.C.) examination, eight passed—viz., *Physical Chemistry:* E. K. Rideal, B.A. (Cantab.), Ph.D. (Bonn); *Organic Chemistry:* W. S. Allen and Gilbert Harding; *Chemistry (and Microscopy) of Food and Drugs, Fertilisers and Feeding-stuffs, Soils, and Water:* A. S. Carlos, B.Sc. (Lond.), R. H. Hopkins, B.Sc. (Birm.), D. A. Legg, A. R. Pearson, B.Sc., A.R.C.S. (Lond.), and G. A. Stokes.

"Gripe-water."

"Kemp's Mercantile Gazette" published on April 21 an article entitled "Traders' Competition in Court," in which the Gripe-water case was reviewed, and Mr. Justice Eve's judgment commented upon in such a way as to call for some explanation. This is given in the "Gazette" of May 5 in the following statement:

With reference to the report of the case of W. Woodward, Ltd., *v.* Boulton Macro, Ltd., and our comments thereon, which appeared in our issue of April 21, Messrs. Woodward's solicitors have written to us as follows:

"You state in the article that, the claim of passing-off having fallen through, the defendants and others can sell such preparations as gripe-water without any legal liability, but they must not use the words as a trade-mark. This statement is entirely inaccurate. The words 'Gripe Water' have been held by the Courts to be a good trade-mark, and a certificate of validity has been granted to Messrs. Woodward in respect of this trade-mark. The defendants in the action referred to were restrained from infringing that trade-mark, and were ordered to deliver up the labels, etc., bearing the words 'Gripe Water.'

The defendants in the action were not using the words 'Gripe Water' as a trade-mark, but were using them as descriptive of the article, and they were restrained by injunction from so doing because Messrs. Woodward are, and have been held to be, the registered proprietors of the words 'Gripe Water,' and any other person using such words would be committing an infringement of Messrs. Woodward's registered rights, even if they did not use them as a trade-mark.

Your statement that the term 'Gripe Water' is practically thrown open for general use to the trade as a description of the medicinal preparation indicated is entirely inaccurate, and such statement cannot be supported by anything in the judgment."

In the absence of certain facts not appearing in the report of the case and of the judgment (which is most confused and complicated), we misunderstood the effect of the judgment. After the inquiries we have made, we now adopt the view stated by Messrs. Woodward's solicitors.

Women and their Work.

Under the above title an exhibition, organised by the "Daily Express," is being held this week at the Royal Horticultural Hall, Westminster. The exhibition is intended to demonstrate the various branches of work in which women excel, and at the same time to help them in turning their work to practical advantage. The majority of the stalls are devoted to needlework of all kinds, painting, fancy jewellery, etc. Electricity, however, plays an important part in the exhibition. The Dowsing Medical Institution has an interesting exhibit, presided over by uniformed nurses, showing radiant-heat baths for the treatment of rheumatism, the after-effects of wounds, frostbite, etc. In another part of the hall demonstrations of cooking by electricity are given at frequent intervals. The Middlesex Hospital is represented by a well-equipped section of a ward. The British Women's Temperance Association has a patriotic stall on which are shown models illustrating the rate of infant mortality among the children of temperate and intemperate parents. There are also several stalls devoted to work done by members of schools for the blind and deaf, and by cripples. A ladies' orchestra performs in the central hall, and there are lectures and concerts each day.

Birmingham.

The Early Closing Association has received a cheque for 50*l.* from Cadbury Bros., Ltd., towards the expenses of the campaign for making shop-life more attractive by the reduction of the present excessive hours.

Considerable correspondence is appearing in the local Press regarding the question of early closing. There appears to be a decided opinion that the present is a favourable time to agitate for shorter hours of business.

Chemists who have occasion to use the Patents Reference Library will note that it has been removed to rooms under the Art Gallery extension in Great Charles Street. The former rooms are to be used to house the Watt and Boulton relics presented to the city by Messrs. Tangye.

"M.D.," in the "Birmingham News," recommends the following as a very simple and efficacious cough-mixture; "Treacle 6 oz., honey 7 oz., vinegar 10 oz.; blend by warming and stirring in a jar placed in a pan of boiling water, then add three teaspoonfuls of ipecacuanha-wine. Dose for an adult, one tablespoonful every four hours."

Jersey.

Mrs. E. Pryce's herbal-remedies stores have been removed to 52 New Street, St. Helier.

A St. Helier resident, Mr. C. T. Osment, has been obliged to publish a public apology in the Jersey Press to Renoufs, Ltd., proprietors of The Drug-stores, Jersey, for slanderously stating that they had traded with the enemy.

As a result of two cyclists coming into collision near the shop of Mr. F. G. Piquet, chemist and druggist, 11 Halket Place, St. Helier, one of them was thrown headlong through the window of the pharmacy, sustaining cuts and doing much damage. The unfortunate cyclist's injuries were promptly dressed by Mr. Piquet. Fortunately, a large specie-jar standing in the window (one of six purchased by the late Mr. J. Aubin, chemist, at the Exhibition of 1851) escaped damage. The jar is exceedingly valuable, and could not have been replaced.

Sheffield.

The Rev. T. M. Archer, M.A., chemist and druggist, of Low Fell, has taken over the Curacy of St. Mary's, Walkley, Sheffield.

Mr. F. Medley has an attractive window-display of Zepto and Icilma preparations at his Firvale shop at present. The Icilma goods have been extensively advertised in Sheffield recently.

A feeling prevails among local pharmacists that the national scheme for the supply of medicines to the dependants of soldiers and sailors is being abused in some quarters, as the separation allowances are being spent freely but not too well.

Contracts for Drugs, etc.

The following particulars regarding contracts for articles in which our subscribers are concerned have been received during the week:

Barnsley Education Committee.—Mr. J. Moxon appointed chemist.

Marylebone Guardians.—Corbyn, Stacey & Co., Ltd., drugs and druggists' sundries.

Southampton Town Council.—Lankester & Son, Ltd., carbolic soap; E. J. Arnold & Son, thermometers.

Guardians' Doings.

Marylebone Guardians last week decided to increase the salary of Mr. A. T. Rugman, chemist and druggist, dispenser, from 160*l.* per annum and 20*l.* in lieu of residence to 170*l.* with the same allowance for residence, for a period of six months, when the matter will be reconsidered. It was stated that Mr. Rugman has been employed by the Guardians since 1903, and has discharged his duties, including all branches of *x*-ray work and photography for the infirmary and the care of the medico-electrical apparatus, in a most efficient manner.

Lambeth Guardians have decided, on the recommendation of Dr. Baly, medical superintendent of the infirmary, that as the present arrangements in respect to the infirmary and the central drug-stores are somewhat unsatisfactory, Mr. P. S. Thomas, chemist and druggist, should resume his work at the infirmary and that Mr. Ernest Darch, chemist and druggist, should take charge of the outdoor dispensary. Both officers concerned are satisfied with this arrangement, and it will not interfere with the administration of the central drug-store. It has also been arranged that Mr. Darch, on taking charge of the outdoor dispensing for four districts, shall undertake the quarterly examination of the accounts of the local chemists in respect of the dispensing for the outdoor poor in the remaining four districts.

The Contracts Committee of Paddington Guardians, after consultation with an expert, has recommended to the Guardians that the tender-form for drugs should be revised as follows: (*a*) That proprietary drugs and articles be deleted, with the exception of ether and chloroform, the British Pharmacopœia standard being sufficiently stringent for the purpose of guaranteeing a satisfactory supply; (*b*) that industrial methylated spirits be inserted in the tender-form in place of methylated spirits, subject to a permit being obtained from the Inland Revenue Commissioners for this purpose, the former spirit being preferable for medicinal use; (*c*) that the specification for cod-liver oil and malt be altered to 20 per cent. of oil instead of 33⅓ per cent. as at present; and (*d*) that the dispenser be instructed to submit, from time to time, certain drugs for analysis in order to ensure that the required standard is being adhered to by the contractor. The Committee has also recommended the Guardians to pay the extra charges incurred by Corbyn, Stacey & Co., Ltd., owing to the war, which amount to 23*l*. 11*s*. 3*d*., less 1*l*. 6*s*. 6*d*., the latter sum being the cost of an analysis of cod-liver oil and malt and the approximate value of the deficiency in oil in the actual supply compared with that required by contract.

Miscellaneous.

Poisoning Cases.—Two of the four deaths from poisoning reported during the week were suicidal cases. The poisons employed were spirit of salt and a corrosive acid (kind not stated). Carbolic acid and laudanum, taken by misadventure, caused the deaths of two persons.

Outbreak of Fire.—The premises of Boots, Cash Chemists, Ltd., King Street, Egremont, Cheshire, were the scene of an alarming fire on April 29. The fire-brigade succeeded in subduing the outbreak, but not before damage to the extent of about 50*l*. had been done in one of the store-rooms.

Boreham *v.* Boreham and Rabbits.—In October last Mr. Justice Bargrave Deane granted the petition for a divorce by Mr. Walter H. Boreham, chemist and druggist, 143 Uxbridge Road, Hanwell, on account of his wife's misconduct with Sidney Rabbits. This decree was made absolute by Mr. Justice Horridge on May 3. Mr. Boreham has custody of the children.

Infant Orphan Asylum, Wanstead.—The votes of any connected with the drug-trade are solicited for Frank Albert Ansell, aged five years, whose father was counting-house manager with T. Christy & Co., Old Swan Lane, E.C., and died in September 1913, leaving a widow and one child totally unprovided for. Proxies may be sent to Messrs. Christy, or to Mrs. Ansell, 7 Salisbury Terrace, Goldsmith Road, Friern Barnet.

Fairchild Scholarship and Prizes.—Students of pharmacy should bear in mind that June 1 is the last day for receiving entries for this year's examination, which will be held in July. The value of the scholarship is 50*l*., and in addition there are four prizes of 5*l*. each. Application-forms can be obtained from Mr. A. E. Holden, Secretary to the Committee of Trustees, Albert Chambers, 64-65 Holborn Viaduct, London, E.C.

Bright Lights.—At Folkestone on April 30, Frederic G. Curtis, Ph.C., 94 Sandgate Road, Folkestone, was fined 1*l*., under the Defence of the Realm Act, for not effectually shading or obscuring the window of his shop so that no white light was thrown outside, on April 17. Defendant said he had not the slightest intention of disobeying the law, but on the date in question he had been busy, and the matter of the lights went out of his mind.

Arsenic in Salt of Tartar.—The public analyst for Lancashire, in his report for the past year, states that the large increase in the proportion of adulterated samples of drugs examined during the year was due to widespread contamination of salt of tartar with arsenic. His attention was called to the matter early in the year, and eighty-six samples were accordingly purchased in different parts of the county. In fifty-six of these quantities of arsenic varying from 0.2 to 14.5 grains per lb. were found. The contamination, it is stated, is traceable partly to impure sulphuric acid and partly to arsenical fuel used in the manufacture of the commercial salt. The analyst also refers to the cases taken under the Sale of Food and Drugs Acts, the result of which was to stop the sale of such stuff.

A Lift Fatality.—At the Southwark Coroner's Court on May 3, Dr. F. J. Waldo held an inquiry concerning the death of John George Jones (14), a van-boy, employed by Wright, Layman & Umney, Ltd., for whom Mr. Pocock, barrister, appeared, while Mr. Ringrose, H.M. Inspector of Factories, represented the Home Office. It was stated that during the dinner-hour on Wednesday, April 28, the boy was fatally crushed in a goods-lift while skylarking. He was taken at once to Guy's Hospital, where he died the same night from the effects of a crushed head. The jury returned a verdict of accidental death, and recommended that steps should be taken to prevent the improper use of the lift, which, it was stated, was properly protected by a cross-bar. Mr. Pocock expressed the sympathy of his clients with the relatives of the boy.

Doctor's Instructions Ignored.—At an inquest held at Wallasey (Cheshire) on April 27, on a widow who died from the effects of an overdose of laudanum, which she obtained in small quantities from various pharmacies (*C. & D.*, May 1, p. 37), it was stated by Dr. Bark that he had attended her on a former occasion, when she was found to be suffering from the effects of laudanum, and she was temporarily deranged for some hours. He ordered a sleeping-draught in powder form, and marked the prescription with the Latin equivalent of "Not to be repeated." Notwithstanding that, however, it had been repeated; but as there were the names of two chemists on the prescription he did not know which one had dispensed it the second time. It was possible it might have been repeated more than once. A juror asked if there would not be a great moral, if not a legal, responsibility attached to the chemist who repeated a prescription marked in such a way. Dr. Bark replied that there would certainly be a moral responsibility. The Coroner (Mr. J. C. Bate) remarked that, unfortunately, it was quite possible for a person to go to a number of shops, tell the same tale, and get small quantities of laudanum. The jury returned a verdict of death by misadventure.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharmaceutical Society of Ireland.

The Lord-Lieutenant and Privy Council in Ireland on April 23 approved of the appointment of Mr. John Burnett as examiner in practical pharmacy for the purposes of the Irish Pharmacy Acts.

Guardians and Drug-contracts.

The Cork Chemical and Drug Co. have claimed 4*l*. 2*s*. from the Bantry Guardians in respect of increased cost of drugs during the war. The Chairman said the company had a contract for the present year, and they could cover the war losses. Everybody had to suffer losses due to the war, and this contractor should share them.

The Tipperary Guardians have agreed to pay the claim of Boileau & Poyd for extra payment because of increased cost of drugs, etc., during the war.—The Kilrush Guardians have agreed to pay the claim for 5*l*. 2*s*.—The Monaghan Board of Guardians have refused to pay a claim for 28*s*.—The Cookstown Guardians have also refused to pay the amount claimed, 2*l*. 5*s*.—The Shillelagh Guardians have agreed to allow a claim of 13*s*. 8*d*.

The Local Government Board persist in the objection to the Bawnboy Guardians accepting the tender of Fannin & Co., Dublin, for appliances when a lower tender was

received from S. Connor & Sons, Newry. The Clerk said the difference between the two tenders is 1s. in the half-year. Mr. Johnstone said the action of the Local Government Board was absurd in view of the recommendation by the medical officer in favour of Fannin & Co. The letter from the L.G.B. was marked "Read."

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Aberdeen and the North.

Mr. G. Rome Innes, chemist and druggist, Lossiemouth, has been appointed chemist to Drainie Parish Council for the ensuing year.

Monday, May 3, was observed as the Spring Holiday in Aberdeen. Owing to the excursions and cheap fares being off very few people left town.

Mr. D. M. Wright, chemist and druggist, Albert Street, Kirkwall, has moved into his new shop, which has been remodelled and brought thoroughly up to date.

Fife.

The unusually hot sunshine since the end of April has caused considerable trouble to chemists. Reports are to hand of toilet-paraffin and perfumes bursting their containers when placed in direct sunlight.

"Kill that fly!" is likely to be the cry of doctors and chemists throughout the country. Dr. Campbell, assistant medical officer of health, Kirkcaldy, has intimated that the military authorities desire doctors and chemists, together with the general public, to take steps to prevent a plague by a war on flies. Already pharmacists are being asked as to the best methods of prosecuting the campaign.

Leith.

The following chemists in Leith and district have agreed to close their premises at 8 P.M. (10 P.M. on Saturdays) from May to September inclusive:

J. T. Coats & Co., 94 Ferry Road; Mr. A. Curric, 102 Ferry Road; Mr. G. P. Cooper, 5 Anchorfield, Newhaven; Mr. R. B. Forgan, 14 Portland Place; Mr. A. H. Patterson, 9 Ferry Road; Powell & Co., 53 Ferry Road; Mr. G. D. Thomson, 33 Ferry Road; Mr. P. M. Thomson, 162 Ferry Road; Mr. A. Walker, 26 Craighall Road, Trinity; and Mr. J. Hogg, 6 Mulberry Place, Edinburgh.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. R. Kennedy, chemist and druggist, has purchased the business of Mr. John Johnstone, chemist and druggist, Main Street, Coatbridge.

Brett & Co., chemists' valuers, Leicester, inform us that Mr. F. Barlow (Inverness) has bought through them the business of Mr. F. Youl Cope at 69 Spring Gardens, Buxton, who has purchased the business of Mr. E. W. Battle, North Street, Ripon, and Mr. H. R. Fletcher (Lyndhurst, Tadcaster) has bought Mr. A. S. Snowden's branch business at 550 Hessle Road, Hull.

Poisoning Fatalities in 1913.

The seventy-sixth annual report of the Registrar-General of Births, Deaths, and Marriages in England and Wales, being for the year 1913, has been issued this week. The deaths registered during the year number 504,975, corresponding to a death-rate of 13.7 per 1,000, which is 0.4 higher than that of the preceding year and 1.2 below the average for the decennial period ended 1912. The deaths from poisons and poisonous vapours numbered 1,107 in 1913, compared with 1,141 in 1912. The deaths under or connected with the administration of anæsthetics during 1913 numbered 296; these are not included in the accompanying table, which is confined to scheduled poisons and other substances of a similar nature, or which coroners' juries consider to be "poison":

—	Negligence and Accident 1911	Suicide 1911	Negligence and Accident 1912	Suicide 1912	Negligence and Accident 1913	Suicide 1913
Acetanilide	1	—	1	—	—	—
Acetic acid	—	2	4	—	—	1
Aconite	—	—	—	—	2	1
Alcohol and laudanum	—	—	—	—	1	—
American potash	—	—	—	—	1	—
Ammonia	14	15	9	20	9	21
Ammonia and iodine tincture	—	—	4	—	—	—
Ammonium bromide	—	—	—	—	1	—
Ammon. tincture of guaiacum	—	—	1	—	—	—
Aniseed and laudanum	—	—	—	—	1	—
Antimony	1	—	1	1	—	—
Antipyrin	—	—	—	—	1	—
Arsenic	6	5	7	6	3	6
Atropine	—	2	—	1	—	1
Belladonna	4	5	5	15	10	7
Belladonna and aconite	1	1	—	—	3	—
Belladonna and chloroform	—	—	—	—	—	1
Benzole	—	—	2	—	—	—
Camphor	—	2	1	1	—	—
Camphorated oil	2	—	2	—	1	1
Cantharides	1	—	—	—	—	—
Carbolacene	—	—	—	—	—	1
Carbolic acid	10	89	17	88	10	64
Caustic potash	—	—	1	—	—	1
Caustic soda	3	1	—	1	2	—
Chloral	2	1	—	—	3	—
Chloral and morphine	—	—	—	—	—	1
Chloral and opium	—	—	4	—	—	—
Chloride of barium	—	—	1	—	—	—
Chloride of lime	—	1	—	—	—	—
Chlorodyne	4	2	5	—	5	—
Chloroform (not for operation)	1	1	1	2	1	2
Coal tar preparation	—	—	—	—	—	1
Cocaine	—	—	2	1	—	—
Cocaine and aconite	—	1	—	—	—	—
Colchicum	—	—	—	—	—	1
Copper sulphate	—	1	—	—	—	—
Creolin	—	—	—	—	—	1
Disinfectant	2	1	—	3	1	1
Disinfectant (Puritas)	—	—	—	—	1	—
Epsom salts	—	—	—	—	1	—
Fluoric acid	—	—	—	1	—	1
Formalin	—	—	—	—	—	1
Fusel oil	—	—	—	—	—	1
Hartshorn and oil	1	—	—	—	—	—
Hydrochloric acid	23	73	8	86	12	98
Iodine	—	—	—	—	1	—
Jeyes' Fluid	—	—	2	1	2	—
Liniment	1	2	—	3	6	2
Liq. epipasticus	—	—	—	—	1	—
Lysol	—	3	2	2	5	5
Mercury	1	1	—	—	—	—
Mercury bichloride	2	5	—	—	3	10
Mercury biniodide	—	—	1	—	—	—
Mercury chloride	—	—	3	10	—	—
Methylated spirit	1	—	—	1	—	—
Morphia and veronal	—	—	—	—	2	2
Narcotic (kind not stated)	6	1	2	—	3	4
Nicholl's pain cream	—	—	1	—	—	—
Nicotine	—	8	—	2	1	2
Nitre	2	—	—	—	1	—
Nitric acid	—	5	3	3	2	3
Nitrobenzene	—	—	—	—	1	—
Nux vomica and arsenic	—	—	—	—	1	—
Oil of wintergreen	—	—	1	—	1	—
Opium, laudanum, & morphine	58	48	48	52	48	38
Oxalic acid	15	75	7	84	3	88
Paraldehyde	—	—	1	—	1	—
Paregoric	1	—	—	—	—	—
Pennyroyal	1	—	1	—	—	—
Phosphorus	2	8	5	9	—	3
Potassium bichromate	—	4	—	1	2	2
Potassium binoxalate	—	—	1	—	—	1
Potassium bromide	1	—	—	—	—	—
Potassium cyanide	5	36	4	41	4	42
Potassium oxalate	—	2	—	2	—	—
Potassium permanganate	2	1	—	—	—	—
Prussic acid	3	21	1	36	4	35
Quinine bisulphate	—	—	—	—	1	—
Sodium bichromate	—	—	—	—	—	1
Strychnine and nux vomica	5	13	4	11	6	11
Sugar of lead	—	—	—	1	—	—
Sulphonal	2	—	5	1	—	—
Sulphuric acid	3	5	6	1	3	6
Trional	—	—	3	—	1	—
Vermin-killer	—	2	—	1	—	—
Veronal	17	2	12	4	19	9
Weed-killer	1	1	—	2	1	1
White precipitate	—	1	1	—	1	—
Zinc chloride	1	—	1	—	1	—
Kind not stated	28	60	144	138	17	34

Legal Reports.

Trade Law.

Salvarsan Treatment.—A question as to the payment for salvarsan injections was the point in the action Parry *v.* Schneider decided by Judge Mackarness at Brighton County Court on April 28. Dr. Leonard A. Parry sued Harry Schneider, the husband of a patient, for 8*l.* 9*s.* 6*d.* in respect of the "provision of doses of salvarsan as agreed." Dr. Parry was responsible to the chemists for the drug, and his Honour gave judgment for him for 4*l.* 14*s.* 6*d.*

Cylinders of Gas.—The case of J. H. Smith & Co., chemists, Newark, against the Rev. W. H. Williams for the recovery of 18*s.* 4*d.*, being the balance of an account for a cylinder of oxygen, again came before Judge W. B. Allen at the Newark County Court on May 3 (see *C. & D.*, February 6, p. 38). Evidence for the plaintiffs was given by Mr. J. H. Smith and one of his apprentices, and for the defence by the defendant and others, after hearing which his Honour came to the conclusion that the money paid into Court by the defendant was sufficient, and gave judgment accordingly.

A Borax Contract.—In the City of London Court on May 3, before Judge Rentoul, K.C., Borax Consolidated. Ltd., sued M. Mellor, trading as J. B. Mellor & Co., Burslem, to recover 41*l.* for 2 tons of best English refined borax supplied on May 26, 1914. It was a second lot that had been supplied under a contract made on May 8, 1913, with the Consolidated Rand Brick, Pottery, and Lime Co., of Johannesburg, which, it was stated, the defendant had taken over. The hearing was adjourned after it was explained, for the defence, that the order came from Mrs. Mellor, not from her husband, who was agent for the Rand company.

Surgical-appliances Catalogue.—In the Chancery Division, London, on April 30, Mr. Justice Younger had before him the action of Mr. Vincent Fava Wood, maker of surgical appliances, Blackfriars, against Mr. E. Heward, Mr. W. Sutcliffe, and Mr. R. H. Heward, partners in the R. H. Heward Co., Crown Road Works, East Twickenham, on a motion for an injunction until the trial restraining the defendants from printing, publishing, issuing, or distributing any trade price-list, catalogue, or circular containing any print or illustration of surgical appliances copied from plaintiff's catalogue, or which was a colourable imitation thereof. The allegations were denied by the defendants, and, there being a great conflict of evidence, his Lordship said it was impossible to decide the dispute on the motion, and ordered the matter to stand over until the trial of the action, which in the present state of the work in the Law Courts will come on for hearing shortly.

Sale of a Dental Practice.—In the King's Bench Division, London, on May 3, before Mr. Justice Rowlatt, Mr. Herbert Frederick Hill, 136 Canterbury Road, Margate, sought to recover 669*l.*, the balance of the purchase-money for a dentist's practice which he sold to the defendant, Mr. Robert Dudley Bell, 144 Victoria Street, Westminster. The case was undefended. Mr. Merlin, who appeared for the plaintiff, said the claim was originally for 750*l.*, but certain sums had since been paid which reduced the price to the amount claimed. The plaintiff opened a dentist's practice in 1912 in Victoria Street, Westminster, and the defendant was his assistant. In 1914 negotiations were commenced for the sale of the practice by the plaintiff to the defendant, and subsequently the price was fixed at 750*l.* The defendant took possession on June 24, but later said he was unable to carry out the payments arranged, because he could not realise money on his securities. Judgment was given for the plaintiff for 669*l.*, with costs.

Stevens' "Consumption-cure."—On Wednesday, May 5, the Court of Appeal, consisting of Lords Justices Swinfen-Eady, Phillimore, and Bankes, heard the application of the plaintiff in the action of Stevens *v.* British Medical Association for judgment or a new trial on appeal from the verdict and judgment at the trial before Mr. Justice Shearman and a special jury. The circumstances of the case are known to our readers through the *C. & D.* reports of the trial. Mr. Tindal Atkinson, K.C., and Mr. Rowsell now appeared for the appellant, and Mr. Colam, K.C., and Mr. H. C. Dickens for the respondents. Counsel's arguments occupied Wednesday, and were continued on Thursday. The argument between counsel and Judges had not concluded when we closed for press. The proceedings were entertaining and amusing. Towards the close on Thursday Lord Justice Phillimore said a certain witness reminded him of the Tichborne trial. Strange people came forward there and gave evidence and got into trouble afterwards.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

Phosferine-competition Case.

Lords Justices Swinfen-Eady, Phillimore, and Bankes delivered judgment in the Court of Appeal on Tuesday, May 4, after arguments, in the defendants' application in the action of Von Sachs *v.* Ashton & Parsons, Ltd., for judgment or a new trial on an appeal from the verdict and judgment at the trial before Mr. Justice Darling and a special jury in the King's Bench Division in October 1914, when the plaintiff (an infant) was awarded 250*l.* as damages for breach of contract in connection with a prize competition, she not receiving a prize which she claimed to be entitled to (*C. & D.*, 1914, II, 597). At the conclusion of arguments by Mr. Duke, K.C., M.P., for the appellants, and Mr. Lewis Thomas, K.C., for the respondent, the Court delivered judgment.

Lord Justice Swinfen-Eady said the question had been put to counsel for Miss Von Sachs whether she would accept judgment for 25*l.* or have a new trial, and Mr. Lewis Thomas said he would leave the matter entirely in the hands of the Court. Having regard to the way the case was left to the jury, and the Judge's summing-up, the jury could not have appreciated the issue properly, or they would not have returned a verdict for 250*l.* That was an excessive sum. Mr. Duke had said that in any event the plaintiff could not be entitled to more than 10*s.*, but he could not agree with that. The fourth-prize winner had 422 words, so that at least, with a drop to 378, the plaintiff was entitled to 25*l.* It was impossible for the verdict to stand for the amount awarded, and there must be a new trial. The appeal, therefore, would be allowed, the judgment reversed, and the appellants would have costs in any event.

The other Lords Justices concurred.

Limited Companies.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

William Foden, Ltd. (P.C.).—Capital 5,000*l.*, in 1*l.* shares. Objects: To take over the business of W. Foden, rosin and turpentine merchant and agent, 8 Fenchurch Buildings, E.C.

Lemaire & Barclay, Ltd. (P.C.).—Capital 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, drysalters, etc., and to adopt an agreement with A. V. John. The first directors are A. V. John, J. W. Murphy, and H. S. Scales. R.O., 37 Berners Street, London, W.

A. E. Braid & Co., Ltd. (P.C.).—Capital 2,040*l.* Objects: To adopt an agreement with Braid, Woods & Co. for the acquisition of the goodwill and personal connection of A. E. Braid in the business of a surgical-instrument maker and hospital-supplier. The first directors are A. E. Braid and Miss Ellen A. Woods. R.O., 30 Gower Place, London, W.C.

Pharmacy and Drug-stores Supply Association (Lancashire), Ltd.—Capital 200*l.*, in 1*s.* shares. Objects: To carry on the business of pharmacy and drug-store proprietors, chemists, druggists, etc. The subscribers are: J. J. Howarth, 61 Rochdale Road, Shaw, near Oldham, pharmacy proprietor; T. Halliday, 288 Rochdale Road, Oldham, pharmacy proprietor; J. Walters, 52 West Street, Oldham, pharmacy proprietor; H. Bibby, 17 Ladybarn Lane, Withington, Manchester, pharmacy proprietor; T. B. Patch, 8 Buller Green, Hollinwood, Oldham, pharmacy proprietor; R. A. Chadwick, 14 Butts Court, Leeds, solicitor; and these with A. Whalley, W. Clapham, and N. D. Vine are the first directors. R.O., Pearl Chambers, East Parade, Leeds.

Company News.

Benger's Food, Ltd.—The accounts for the year to March 31 show that, after allowing for depreciation and charges, the profit, including investment income, was 51,229*l.* 7*s.* 4*d.*, which with the balance brought forward—viz., 8,442*l.* 0*s.* 4*d.*—makes 59,671*l.* 7*s.* 8*d.* The directors recommend a final dividend on the ordinary shares of 1*s.* 3*d.* per share, making 2*s.* 3*d.* for the year, placing 2,500*l.* to advertising and extension account, 12,500*l.* to reserve, and carrying forward 7,546*l.* 7*s.* 8*d.*

Synthetic Products Co., Ltd.—Among the mortgages registered is one dated April 19, 1915, to secure 7,500*l.* and further advances of moneys owing stamped up to 15,000*l.*, charged on leasehold land, factory, and works at King's Lynn, Norfolk, and the company's undertaking and property, present and future, including uncalled capital, but excluding any moneys due or to become due in respect of the company's works at Rainham. The holder is the Secretary of State for War.

Deeds of Arrangement.

Bradford, George Henry, 38 Marsh Lane, Leeds, Retail Chemist.—Trustee, P. S. Booth, 2 Bixteth Street, Liverpool, accountant. Dated, April 22; filed, April 27. Liabilities unsecured, 168*l.*; estimated net assets, 150*l.* The creditors include: Express Developing Co. (3*l.*); Thomas Swales (3*l.*); Goodall, Backhouse & Co. (20*l.*); Evans Sons Lescher & Webb, Ltd. (33*l.*); and Ayrton, Saunders & Co., Ltd. (44*l.*).

Biggs, Alfred L., trading as B. Biggs & Co., 66 Cannon Street, London, E.C., and residing at 26 Alba Gardens, Golder's Green, Chemical-merchant.—Trustee, T. G. Piper, Bush Lane House, Cannon Street, E.C., C.A. Dated, April 26; filed, April 30. Secured creditors, 2,661*l.*; liabilities unsecured, 20,110*l.*; estimated net assets, 4,615*l.* The creditors include: L. Berger & Sons, Ltd. (210*l.*); A. Boake, Roberts & Co., Ltd. (35*l.*); W. H. Brown & Co. (195*l.*); R. W. Greeff & Co. (104*l.*); Industrial Spirit Supply Co., Ltd. (1,275*l.*); Stein Bros. (12*l.*); Standard Chemical Iron and Lumber Co. of Canada, Ltd. (3,239*l.*); Hopkin & Williams, Ltd. (5*l.*); J. M. Combs (5,081*l.*); H. Jones (500*l.*); Miss J. E., M. M., and M. E. W. Biggs (512*l.*); Mrs. M. S. Bothwell Bottom (512*l.*); Misses Biggs (1,412*l.*); trustees of Miss M. A. Combs (deceased) (2,782*l.*); G. Burnand & Co. (1,086*l.*); J. Watson (612*l.*); Kempton & Puckle (821*l.*); Ransford & Co. (739*l.*); Vetter Bros., Leipzig (580*l.*); St. Helen's Smelting Co. (129*l.*); and Meggitt & Son, Ltd. (9*l.*).

Bankruptcy Report.

Re Albert Edward Ward, White Abbey Road, Bradford, Chemist and Druggist, formerly carrying on business as a wholesale and retail chemist, now employed as a chemist's manager.—At the Bradford County Court on May 4 this debtor applied for his discharge. The Official Receiver (Mr. Walter Durrance) stated that the public examination in bankruptcy was concluded on June 20, 1900, when the gross liabilities were estimated at 1,821*l.* 12*s.* 7*d.* The assets realised 411*l.* 15*s.* 3*d.*, and the balance and costs available for distribution totalled 374*l.* 14*s.* 11*d.*, enabling a first and final dividend of 2*s.* 11¾*d.* in the pound to be paid on proved debts amounting to 1,793*l.* 4*s.* 10*d.* The debtor had purchased the business in 1891, and it was unsuccessful from the commencement. Judge Graham, K.C., granted the discharge, subject to the usual two years' suspension.

Gazette.

Partnerships Dissolved.

Bray, F. D., and Stinson, O., Marden, Kent, veterinary surgeons, under the style of Bray & Stinson.

Jones, J. A., and Hellyer, W. W., Abcravon, general medical practitioners, under the style of Arnallt Jones & Hellyer.

Lloyd, A., sen., Lloyd, A., jun., and Lloyd, W. H., 45 Horseferry Road, Westminster, makers of scientific instruments, etc., under the style of Patrick Adie.

Van Bylevelt, W. F. K., and Merrett, G. W., Alhambra Electric Mills, 27 Dolday, Worcester, diastasic and malt flour manufacturers, under the style of the "Aristos" Manufacturing Co.

Bankruptcy Acts.

Receiving Order.

Burnet, J. F., 15, 17, and 52 Bromley Street, Sheffield, drysalter.

Adjudications.

Burnet, J. F., 15, 17, and 52 Bromley Street, Sheffield, drysalter.

Lunn, H. N., 402 Victoria Street, and Dalkeith, Weelsby Road, Great Grimsby, chemist.

Pharmaceutical Society of Great Britain.

Council-meeting.

The monthly meeting of the Council was held on May 5 at 16 Bloomsbury Square, London, W.C. The President proposed resolutions of appreciation of the services of Messrs. C. B. Allen and D. Gilmour, who are retiring from the Council. These resolutions were carried by acclamation and responded to feelingly. The Secretary announced that he had received for the Belgian Doctors' and Pharmacists' Relief Fund the sum of 400*l.* from the Australian Pharmaceutical Conference. The question of the exemption of chemists from the Medical Preliminary examination was brought up by a letter from Mr. Rutherford, Newbiggin-by-the-Sea, and the Secretary read a letter which had been sent on this subject to the General Medical Council. From the Benevolent Fund the sum of 114*l.* 10*s.* was voted to eight applicants for assistance. The annual report of the Council was approved and adopted. The Council prizes results were announced, the Pereira Medal being awarded to Miss Dorothy M. White. The President made a statement of the steps that had been taken to procure exemption for medicinal spirit from the proposed increased duty on spirits. The Government Visitor's report was received from the Privy Council and attention drawn to the increase in the proportion of candidates who passed the Minor.

The Councillors present were: Mr. E. White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. C. B. Allen, F. E. Bilson, A. S. Campkin, W. G. Cross, J. H. Cuff, W. L. Currie, F. J. Gibson, R. L. Gifford, D. Gilmour, A. Hagon, J. F. Harrington, J. Harrison, L. M. Parry, F. A. Rogers, P. F. Rowsell, F. P. Sargeant, T. A. White, and J. R. Young.

Retiring Councillors.

After the minutes had been read the President referred to the retirement from the Council of Mr. C. B. Allen and Mr. D. Gilmour. Mentioning first Mr. Allen, the President moved the following resolution:

That this Council deeply regrets the retirement of Mr. C. B. Allen, and desires to record its sense of his services to the Society and to Pharmacy during his long term of active work as a member of the Council. Elected in 1885, Mr. Allen was called upon to fill the office of Vice-President in 1900 and of President in 1913, discharging the duties of the former office for four years to the general satisfaction of his colleagues, and carrying out the duties of President for two years with zeal, prudence, and ability. His former colleagues, in bidding him an official farewell, express the hope that Mr. Allen will long be spared to display his interest in the work of the Society for whose welfare he has devoted so large a measure of his energies and experience.

The President added that the Council and the craft throughout the country recognised a valuable asset in men of Mr. Allen's calibre. He (Mr. Allen) knew the traditions of the Society, and was able to keep the younger councillors on the right line. Mr. Allen had always appeared to him as a man with a knowledge and correct ideas of the best kind of pharmacy. He (the President) wished Mr. Allen long life, prosperity, and good health in his retirement.

The Vice-President, seconding the resolution, said he regarded Mr. Allen as a typical example of a practising pharmacist who approached with a broad mind, and had a special watchfulness for the interests of chemists in business. He had earned the appreciation of the pharmacists throughout the country for his untiring efforts on behalf of the craft. The Vice-President also referred to the part which Mr. Allen took as President

in the negotiations regarding the National Insurance Bill and in various public inquiries and committees. Mr. Allen, said the speaker, seemed to take a special interest in young recruits at the Council table, and it gave the speaker special pleasure to be able to pay a personal tribute from the vice-chair for the kindly welcome he (the Vice-President) received from Mr. Allen when he first became a member of the Council.

Mr. Harrington, Mr. Rowsell, Mr. Cross, and Mr. Currie also spoke, referring to Mr. Allen's work from different points of view.

The resolution was passed with acclamation.

Mr. Allen, who spoke with considerable emotion, said he always found it hard to say good-bye. He would rather run away any time, but felt that he must face it on this occasion. After about thirty years on the Council he felt that he could properly claim a little relaxation so that his aims for the future could be developed. He recalled the pleasure it gave him thirty years ago to receive notice that he had been co-opted to the Council, and particularly when he knew that Mr. Hills was his sponsor. It was in the business house of Mr. Hills that he (Mr. Allen) picked up correct ideas on pharmacy, and was impressed with the importance of doing something for the good of pharmacy. During his association with the Council he had made the acquaintance of many men whose names are historic, such as T. H. Hills, Schacht, Greenish, Hampson, Bottle, Williams, and Carteighe. He (the speaker) had done his very best for pharmacy, and felt, now that he no longer possessed the capacity for much initiative work, it was time for him to give place to a younger member who will, he hoped, do better than he had. It is always painful, he added, to say good-bye, and he recalled the pathetic farewell letter of the late John Taylor, of Bolton, which he wrote to the Council when stricken down with a mortal disease. Mr. Allen also mentioned the anxious time which he went through during his Presidency in regard to the National Insurance Bill, and he specially thanked the Society's staff for the great kindness which they had always shown to him. He concluded, "I shall always bear the members of the Council in heart, and I shall not lose their friendship because they are so dear to me."

Mr. Bilson mentioned that when he went to Bell & Co.'s he was shown Mr. Allen's entries in the prescription books, and was told they were the writing of an absolutely typical assistant.

The President then proposed the following resolution referring to the retirement of Mr. Gilmour:

The Council desires to express to Mr. David Gilmour, on his retirement, its cordial good wishes and to record its high appreciation of his conscientious work during the seven years he has represented Scotland on the Council. The Council would like to think that Mr. Gilmour's retirement may be only temporary, and that his colleagues may at some future time have the advantage of his valuable help and genial presence.

The President said that either all Scotsmen are remarkable people or else Scotland always sends her best men to the Council, as they always stand out prominently among the councillors. He admired Mr. Gilmour for his simple-mindedness and straightforwardness, which are very refreshing in the atmosphere of Modern Babylon.

The Vice-President, in seconding the resolution, said that Mr. Gilmour had established a personal position at that table on account of his absolute sincerity. Scotland was always assured of a staunch advocate in Mr. Gilmour, who could always put the case of Scotland forcibly before the Council. He had also kept a watchful eye on the interests of chemists as a whole.

Mr. Campkin, Mr. Young, Mr. Currie, and Mr. Allen supported the resolution, which was carried with acclamation.

Mr. Gilmour, in reply, thanked the Council for the kind expressions that had been made that day and at the previous meeting. Chemists in the North were very grateful for these appreciations of their representative. While he had not been able to do much initiative work, he had done something in keeping the different parts of the constituency in harmony. Occasionally circumstances arise in legislative proposals where the points of difference are apt to be magnified by the distance, and if in such cases he had been able to bring North and South together it was not a bad thing to have accomplished. If anything he had said had jarred against the feelings of the councillors he hoped they would forgive him, as he assured them that no rancour remained—especially after luncheon. He did not think he had made a single enemy, but he had made many friends. He felt that he could not give the close attention to the work which it needed, and although he did not like parting, that was made easier by the kind words of the President and his colleagues.

Elections and Restorations.

There were next elected 30 members and 22 student associates, and 437 persons were restored to their former positions in the Society. The name of one chemist and druggist was restored to the Register of Chemists and Druggists. The Secretary reported that he had during the month registered 41 apprentices or students.

Correspondence.

The North British Branch report was received and ordered to be entered on the minutes.

The Newcastle-upon-Tyne Pharmacists' Association impressed upon the Council the desirability of approaching the Army Council with reference to the status of pharmacists in the Royal Army Medical Corps. The President said Mr. Glyn-Jones has this matter in hand. Mr. Gifford added that he hoped the matter would have the serious attention of the Council. The shortage of medical men in the Army would not exist if there was organised a proper pharmaceutical service.

The Manchester Pharmaceutical Committee forwarded a resolution regarding the deficiency in the Drug Fund, suggesting that priority of treatment should be given to the deficiency for 1913. The President said the Council would doubtless be consulted in the matter of distribution, when these views would be borne in mind.

The Wolverhampton and Eastbourne Pharmacists' Associations expressed approval of the work of the Society in the negotiations which had been concluded for meeting the deficiency in the Drug Fund.

The Swansea Pharmacists' Association, on the other hand, referred to the serious position of chemists in the area owing to the non-payment of accounts. The Council has not, the Association stated, been as successful as it might have been. The Secretary said the matter was before the Local Associations' Executive Committee, when it was decided to write to the Welsh Commissioners on the matter. Mr. Parry thought the matter should have been explained to the chemists. The Secretary replied that a member of the Local Associations' Executive Committee had explained the position to the meeting.

The Privy Council Office called attention to a communication from the United States Treasury Department in regard to the manufacture of smoking-opium and its export to the United States. The Secretary explained that he called the attention of the Privy Council to the recent prosecutions for the sale of opium by brokers, and had received a letter thanking the Pharmaceutical Council for its promptness.

The Hull Chemists' Association wrote approvingly of the attitude of the Council in the matter of the registration of apothecaries' assistants. The Hull Pharmaceutical Committee did likewise, and also approved of the stand taken regarding Pharmacopœia revision.

The Secretary reported that a reply had been received to a letter of sympathy from the family of the late John Hallaway, of Carlisle.

The Secretary also mentioned that the Australian Pharmaceutical Conference had sent 400*l.* as a contribution to the Belgian Doctors' and Pharmacists' Relief Fund, made up of 65*l.* from Queensland, 35*l.* from Tasmania, and 300*l.* from Victoria.

Government Visitor's Report.

The report to the Privy Council of Dr. W. H. Willcox, the Government Visitor to the examinations, was then read by the Secretary. Attention was called in the

report to an increase in the number of candidates (681) for the Minor over the previous year, although this is below the average for the previous ten years (792.4). The number of candidates who passed was 322, the highest since 1905, although the percentage of passes (47.28) during the past year was somewhat lower than the previous year (50.08). Statistical particulars were given of the passes and failures in the various subjects. Weakness of candidates was noted in practical chemistry and materia medica, due, the report stated, to inadequate training.

In regard to the Major examination, the number of candidates examined was sixty-three, "a satisfactory increase on the figure for the preceding year." Forty-four candidates obtained "this excellent qualification, this being the highest figure for many years."

Medical Preliminary Exemption.

A letter from Mr. Rutherford, of Newbiggin-by-the Sea, gave particulars of the steps he is taking in obtaining exemption for pharmacists from the Medical Preliminary examination. Mr. Rutherford has communicated his views to the Government and principal Ministers. He has also compiled a list of a hundred pharmacists who would be prepared to go in for the medical curriculum if this matter of the Preliminary examination could be arranged. The Secretary, in response to a question by the President, mentioned the steps that had been taken already in the matter by the Council, and read the following letter, which had been sent to the General Medical Council:

April 12, 1915.

Dear Sir,—I am directed by my President to inquire whether, having regard to the shortage of medical men and to the possible emphasis of that shortage in the near future, the General Medical Council would be prepared to consider favourably a suggestion that qualified pharmacists who desire to enter upon the medical curriculum might be excused the Medical Preliminary examination and such parts of the Qualifying examination as are included in the subjects which the pharmacist has to pass in order to qualify under the Pharmacy Acts. In this connection I am to remind you that some years back the Medical Council used to recognise this Society's Preliminary examination in conjunction with the Qualifying examination *pro tanto*, and did not require candidates for medicine to go through the subjects which they had already covered in their pharmaceutical career. If the Medical Council could see its way to revert to those conditions, I am given to understand that it would be an additional inducement to direct to the medical profession those pharmacists who would be prepared to go through the medical curriculum, but who would not be prepared to face the necessity of going through what may be termed "school" subjects.

I am, yours faithfully,
W. J. Uglow Woolcock,
Secretary of the Pharmaceutical Society.

Finance.

The Treasurer then presented the report of the Finance Committee. The receipts of the General Fund during the month amounted to 3,174*l.* 11*s.* 11*d.*, made up as follows: Penalties and costs, 215*l.* 15*s.* 8*d.*; "Journal," 23*l.* 2*s.* 8*d.*; B.P. Codex, 57*l.* 3*s.* 5*d.*; subscriptions, 2,217*l.* 12*s.*; registration-fees, 90*l.* 6*s.*; restoration-fees, 3*l.* 3*s.*; rent and ground rent, 116*l.* 9*s.* 2*d.*; grant from Board of Education, 201*l.*; legacy (H. L. Hargreaves), 250*l.* The balance remained of 1,827*l.* 2*s.* 11*d.*, after deducting the payments ordered at the last meeting of the Council and placing 4,000*l.* on deposit with the London County and Westminster Bank. The following amounts were recommended for payment: "Journal" and publications, 151*l.* 3*s.*; stationery, etc., 222*l.* 9*s.* 6*d.*; current expenses, 750*l.*; salaries, etc., 341*l.* 13*s.* 4*d.*; school and examinations, 37*l.* 3*s.* 10*d.*; law and professional charges, 27*l.* 10*s.* 5*d.*; house expenses, 379*l.* 14*s.* 2*d.*—a total of 1,909*l.* 14*s.* 3*d.* The balances on the Benevolent Fund were as follows: Current account, 693*l.* 7*s.* 11*d.*; donation account, 221*l.* 5*s.* 11*d.* (including 100*l.* legacy from the late W. Ransom, Hitchin); Orphan Fund (debit balance), 28*l.* 6*s.* 10*d.*

In moving the adoption of the report the Treasurer called attention to special donations to the Benevolent Fund from the North London Pharmacists' Association, 10 guineas, and from Miss Kate Horniblow, 15*s.* 5*d.*

The report was adopted.

Benevolence.

The report of the Benevolent Fund Committee was presented by Mr. Rogers, and recommended grants amounting to 114*l.* 10*s.* to eight applicants. Mr. Rogers remarked that the receipts for the Benevolent Fund were smaller than last year, but he had sufficient optimism to feel that the matter would right itself as time goes on.

The report was adopted.

Library Committee.

The President presented the report of the Library, Museum, School, and House Committee, which dealt with school matters and an account for house repairs amounting to 9*l.* 2*s.* 2*d.* An adjourned meeting considered, amended, and adopted the annual report, which is printed on pp. 42-3, and approval was also signified of a lease in regard to property at Paddington Green.

Council Prizes.

The report of the Parliamentary and General Purposes Committee contained the report on the Council prize examinations, and recommended the following awards:

Pereira Medal—Dorothy M. White.
Silver Medal—Arthur J. Somer.
Bronze Medal—R. W. Bowles.

Local Associations' Executive Report.

This also formed part of the report of the Parliamentary and General Purposes Committee. The main features were as follows:

As a matter of urgency, the Secretary reported on the action taken in connection with the proposal of the Government to double the tax on spirit, and he submitted a memorandum setting out in detail the representations which had been made to the Chancellor of the Exchequer in support of a special exemption for spirit used in the preparation of medicines. The Committee thoroughly discussed the position and approved of the action taken, and it was recommended that a copy of the memorandum should be sent, confidentially, to the local Associations, together with a covering letter asking for local co-operation and practical support. The Secretary reported on the Supplementary Drug Tariff for May, which had been approved by the Commissioners and subsequently distributed to the local centres. . . . The Committee considered the question of the date of the next Local Associations Conference and the election of a new Executive Committee. After discussion, the Committee recommends that the next meeting of the conference take place in London during the first week in October, or as soon as possible after the conclusions of the Departmental Committee of Inquiry into the Drug Tariff will have been made public, and it will then be practicable to review the position of pharmacists from a definite standpoint. The election of the new Executive was fixed to take place at the first conference called. Among the correspondence was a letter from the Secretary to the Commissioners, announcing that an adoption of 5 per cent. as an allowance for wastage would be added to the payments for drugs specified on the buff forms (Med. 39).

The Spirit-duty Question.

In view of the Government proposals to increase the duty on spirit, the President then made a statement of what had been done to obtain exemption of medicinal spirit from the extra duty. He said that so soon as the Council became aware of the possibility of an increase in the duty on spirit, and in view of the seriousness of the question to chemists, it felt bound to take action at once. On April 7, on the instructions of the Council, the Secretary sent a letter to the Chancellor of the Exchequer calling his attention to the effect upon the price of medicinal spirits which such increase would have, and also upon the administration of Medical Benefit under the National Insurance Act where the amount available for drugs is limited to 2*s.* Whatever may be opinions as to the use of alcohol as a beverage, said the President, there can be no two opinions as to its value as a menstruum for pharmaceutical preparations. There would be danger in replacing alcoholic tinctures by less efficient preparations, such as aqueous tinctures. Continuing, the President said the letter was acknowledged, and since then the Office had been in communication with gentlemen connected with the wholesale trade, and a deputation had been arranged ready to wait on the Chancellor of the Exchequer, if necessary. He (the President) would like to assure the chemists of the country

that the Council is doing all that it can possibly do in the matter of obtaining exemption from the extra duty for medicinal spirit. It was added that letters on the subject had been sent to local Associations throughout the country, so that chemists may have an opportunity of considering the matter.

Mr. Hagon said he appreciated very highly the attitude of Mr. Glyn-Jones on the subject in the House of Commons.

The President: I may add that we have the sympathy of the Chancellor of the Exchequer and of the Government on the matter, but the difficulty is to suggest a practical scheme.

Mr. Gilmour added that if the extra price were charged to the War-drugs Fund it would lessen the grant which the Government is making to meet the deficit in the Drug Fund.

The other item of interest in the Parliamentary and General Purposes Committee's report was a demand for Inhabited House Duty, although nobody sleeps on the Society's premises. This matter is to be referred to the Solicitor.

The report was then adopted.

Other Matters.

Mr. E. F. Harrison was appointed as Examiner to conduct the next Bell and Manchester scholarship examinations.

The report of the Board of Examiners for Scotland showed that one Major candidate and thirty-one Minor candidates were successful at the recent examinations in Edinburgh. The pharmaceutical chemist referred to was granted a diploma.

This ended the public business.

Annual Report.

The following is the seventy-fourth annual report as approved by the Council:

The past year has proved pre-eminently a year of conflict both pharmaceutically and nationally, but the Council, in presenting the seventy-fourth annual report and financial statement, has the satisfaction of recording that although many serious dangers have had to be faced and combated during the course of 1914, pharmacists have emerged with enhanced reputation, and the Society which represents them has gained in strength.

The Society.—The Registrar's report bears testimony to the increasing recognition of the Society as the natural medium through which the aspirations and grievances of pharmacists can find effective expression. On January 1, 1914, the membership of the Society was 7,788—the highest number ever reached in its corporate history—but on December 31 of the same year these numbers had increased to 8,175, or an addition of 387. The number of student-associates also increased during the same period from 484 to 599. Since the commencement of the year a very considerable number of new members and new student-associates have been elected. It is of interest to note that while the increase of names on the Register of Chemists and Druggists was twenty-two during the year, the additions to the Society were 387, a fact which in itself constitutes a hopeful sign of growing unity among those who carry on the business of a chemist and druggist. All departments of the Society have been in full activity throughout the year, and have coped successfully with the difficulties arising from the disturbances occasioned by the outbreak of the European War.

School.—The School might naturally have been expected to feel the full effect of the war, but notwithstanding the abnormal conditions the sessions opened in October with a full complement of students and teachers. The resignation of Professor Crossley on his appointment to the Chair of Chemistry at King's College, London, removed from the School a teacher of high ability and an organiser the value of whose advice the Council has had many opportunities of judging. It was necessarily difficult to fill the gap left by a Professor of such high attainments, but the Council believes that in appointing Professor Llewellyn Smith to the Chair of Chemistry the teaching of that subject will lose none of its efficiency. The new Professor enters the service of the Society with high credentials, and he will be none the less acceptable to the members of the Society on account of his having commenced his scientific career in the ranks of Pharmacy. A number of the demonstrators and senior students have responded to the call to arms, and the Council, recognising their patriotic motives, is arranging to welcome them back to their former positions on the termination of the war should they desire to resume their pharmaceutical work. Reference was made in the last annual report to the fact that the School was now recognised as a technical school entitled to grants under the Education Acts, and it may now be added that a grant has been received from the Board of Education in accordance with those Acts. Inasmuch as these grants involve official inspection and approval of the work done, the fact that a grant has been made may be taken as conclusive evidence that the present conduct of the School is quite up to the standard of excellence which has characterised its seventy-four years of existence.

Examinations.—The number of candidates for the Qualifying examination has not been quite so large during the past year as in the previous year, there having been 844 candidates, as against 882. Of the number who presented themselves 442, or 50.23 per cent., were successful, which is somewhat lower than the percentage of successes in 1913. Sixty-seven candidates presented themselves for the Major examination, this being seven in excess of the number for the previous year, and forty-five satisfied the examiners and were registered as Pharmaceutical Chemists, showing a percentage of passes of 67.16 per cent. Seven hundred and thirty-three persons were registered as apprentices or students, as against 580 in the previous year. It may be noted that the number of admissions to the Register of Apprentices or Students approximated in 1914 to the figures recorded during the period the Society was conducting its own Preliminary examination in three subjects—English, Latin, and Arithmetic.

Science.—In June last the Council set up a Scientific Advisory Committee with a view to securing the assistance of pharmacists and others engaged in the scientific work of Pharmacy and the allied sciences, in co-ordinating the work of the Society, the provision of material for evening meetings, the revision of the Codex, and the publication of abstracts in the "Pharmaceutical Journal." The Council were fortunate to secure the co-operation of Professor W. E. Dixon, Professor H. Jackson, Dr. E. Fritsch, and the following pharmacists: Messrs. Harrison, Gamble, Galliver, Finnemore, C. T. Allen, Kluge, Melhuish, Tickle, Goldby, J. C. Umney, C. A. Hill, Bennett, Lucas, Bird, Hampshire, J. W. Peck, and H. Deane. The Committee proceeded to form three Sub-Committees, one of which was devoted to the preparation of a Supplement to the British Pharmaceutical Codex, 1911, a work necessitated by the alterations occasioned by the new British Pharmacopœia. The Sub-Committee proceeded vigorously with its work, and the Council was enabled to issue the Supplement in February last. In every sense the Council has reason to congratulate the Society upon the assistance given by the Scientific Advisory Committee, and is very glad to record that the President's expectation that the new Committee would prove an exceedingly useful body has been amply confirmed and realised.

Care of Dependants.—In conjunction with the medical profession, the Pharmaceutical Council in August offered to the Government, on behalf of pharmacists, to give their services and time in supplying at cost price such drugs and appliances as were necessary to the necessitous among the dependants of soldiers and sailors serving with the Colours. The offer was gratefully accepted by the Government, and the President, Mr. Glyn-Jones, and Mr. Woolcock were invited to serve on a Sub-Committee of the Central Prevention and Relief of Distress Committee to carry out the scheme which had been formulated conjointly by the British Medical Association and the Pharmaceutical Society. A special meeting of the Council endorsed unanimously the steps that had been taken, and the Executive Committee of the Local Associations Conference reported as to the best methods of putting into prompt operation the essential details of the scheme. A communication was sent to all the pharmacists in business throughout the country, and from the very first the success of the scheme was assured by the prompt and full response made by all classes of the pharmaceutical community. The Council felt that the members of the Society would approve of the Society undertaking the cost of carrying out the pricing of such prescriptions as might be dispensed, and of securing their payment from the Prince of Wales' Fund, and although this work entails a somewhat heavy burden, it is hoped that it may be looked upon as the Society's contribution towards the care of the necessitous persons left by those who have been called upon to fight the country's battles. The scheme has worked, on the whole, with satisfaction, but there have been instances where it has appeared that Local Relief Committees have issued prescription-books without that discrimination which should have been exercised, and it is evident that in some cases

dependants who were in no sense necessitous have been receiving the benefits of the scheme. Having regard, however, to the enormous benefit conferred by the scheme generally, the few instances of abuse may be regarded as of comparative insignificance. It is with the profoundest satisfaction that the Council records its sense of the readiness with which pharmacists, at the call of the country's need, undertook to forgo profits, time, and payment for services to ensure that the dependants of those absent with the Colours should be properly cared for in time of sickness.

Assistance to Belgian Pharmacists.—The generosity and self-sacrifice of British pharmacists have not been confined to the service for the dependants of British soldiers and sailors. An appeal having been made on behalf of the doctors and pharmacists of stricken Belgium, the British Medical Association and the Pharmaceutical Society co-operated in a conjoint scheme for relieving the urgent necessities of refugee members of the two professions who had fled to England, and for assisting them to obtain suitable employment during their expatriation. Particulars of the relief scheme, together with a short account of the terrible position in which Belgian doctors and pharmacists were involved, were issued to the practitioners and pharmacists of Great Britain, and a very generous response has resulted. The conjoint Fund has exceeded 10,000*l.*, while the contributions from pharmacists and the trade have amounted to about 1,750*l.*

Local Organisation.—A separate paragraph with the special heading of Organisation is now scarcely necessary, as practically every action of the Society and its officers is an organising effort, and is directed to the strengthening of the collective influence of British pharmacists. The focus of local organising work is, however, the Local Associations Conference Executive Committee, which has met monthly during the year, and has thoroughly dealt with the various problems in Insurance and other branches of pharmaceutical work which have presented themselves for solution. In normal times the Committee, which was elected in January 1914 for one year, would have gone out of office in January last, but it was felt that in the peculiar circumstances no good purpose would be served by summoning another conference for the special object of electing a new Executive Committee, particularly in face of the satisfactory work being done by the existing Committee. The Council, therefore, acquiesced in the postponement of the election, and there is reason to suppose that this policy meets with the approval of the Associations. Perhaps the outstanding item in the list of the Committee's duties during the year was the consideration of the serious position of pharmacists in those districts where the Drug Fund had proved insufficient to pay for the drugs and appliances supplied. The deficits ranged from 3 to 40 per cent., and although pharmacists had, under peculiarly exceptional circumstances, agreed to a possible "discounting" of their accounts, they had been led to believe, on assurances almost equivalent to a promise, that no serious deductions would be experienced. The Executive Committee and Council at once arranged for the collection of facts and the presentation of those facts to the Chief Commissioner, and as a result the Right Hon. C. F. G. Masterman received a representative deputation of pharmacists on June 15, 1914. Practically speaking, the Commissioners told the deputation that the deficits were largely due to what might be termed erratic prescribing, and that the Medical Benefit Regulations provided at least a partial remedy for the evil. The Society was advised to recommend the Pharmaceutical Committees in the deficiency areas to invoke the aid of the Regulations and report again to the Commission when the operation had been completed. The advice was followed in letter and in spirit, and on April 6 another deputation was able to prove to Mr. Masterman's successor that the relief contemplated by the Regulations was illusory, and that there was actually no practical remedy against the wastage of the Drug Fund by over-prescribing. Recognising the failure of the official machinery, the Commission announced its intention to utilise the Special Drug Fund of 60,000*l.* towards the reduction of the more acute cases of discounting for the two years—1913 and 1914. The amount available will assuredly prove inadequate to pay every panel pharmacist in full, but it will, at any rate, be sufficient to save everyone from serious loss. In addition to the question of "discounting," the Society has taken to the Commission during the year deputations on other shortcomings of the Insurance Acts, including "Dispensing in Rural Areas," "Expenses of Pharmaceutical Committees," "Delay in Payment of Chemists' Accounts," and the use of "Stock Mixtures." On each of these important questions the pharmaceutical representations have been sympathetically heard, and the facts they represented have been carefully considered. One of the concrete results of the action of the Society has been the meeting of the Departmental Committee of Inquiry into the Drug Tariff, which was set up a considerable time back, but was not summoned owing to the intervention of the war. The Committee is now sitting regularly, and proceeding with its work vigorously and systematically. Its report, when presented, will probably give the Commission an opportunity of a thorough revision of the Medical Benefit Regulations and the removal of a number of inequitable provisions at present contained in them.

Administrative Suggestions.—At the last annual general meeting three suggestions were made by members of the Society present: (*a*) That some revision of the terms upon which life membership of the Society was obtainable should be made; (*b*) that the time of the annual general meeting should be altered; and (*c*) that the carriage of books borrowed from the library should be paid both ways. The Council referred these questions for consideration to appropriate Committees, and as a result the annual general meeting this year is fixed to commence at three o'clock instead of the usual time, noon. With regard to the terms of life membership, the Committee which considered the matter reported that it did not appear to be practicable to adopt the suggestion made. It was also deemed inadvisable that the Society should do more than pay the outward carriage of books borrowed by provincial members.

Benevolent Fund.—The subscriptions to the Fund have been fairly well maintained, in spite of the many adverse circumstances which have characterised the period under review and the many other claims made upon their members. The revised Regulations in regard to annuities came into operation in October, and the Council was able to proceed to the election of nine additional candidates under the new scheme, instead of the usual three or four which had been the utmost in former years. The Council feels it necessary to direct attention to the fact that the demands on the Benevolent Fund are not likely to decrease, and that the necessity for further support from pharmacists is imperative if this side of the Society's work is to be continued efficiently. The Orphan Fund is at the present time maintaining five orphans in various institutions, and is in urgent need of more contributions to enable it to deal with applications which are before the Committee. This Fund is a valuable adjunct to the Benevolent Fund, but can only be utilised for the orphans of members of the Society who were subscribers to the Benevolent Fund. The necessity for, and the advantages of, support to both Funds is therefore apparent.

Scholarships.—The Council, on the representation of members of the Society in Manchester and the district covered by the Manchester Pharmaceutical Association's Scholarships, considered with great care the possibility of revising the Regulations which have hitherto governed the competition. A conference took place between the Secretary and the representatives of the Manchester Pharmaceutical Association, and certain proposed alterations were submitted for the Council's consideration. In the result the Council was able to adopt the proposals with slight modification, and the Regulations for the competition in 1916 will, it is hoped, have the effect of widening the interest of pharmaceutical students in the scholarships. Particulars of the alterations have been published in the "Pharmaceutical Journal." Having regard to the number of holders of scholarships and prospective competitors for scholarships having joined his Majesty's Forces for the duration of the war, the Council has agreed to suspend the Regulations governing the tenure and age of entry for scholarships, so that no prejudice can be suffered by any scholar or any competitor whose enlistment has necessitated the breaking off of his work. The Council has also arranged to keep upon the Roll of Membership during the year the names of all members of the Society who have enlisted, and who for one reason or another are prevented from sending up their ordinary annual subscriptions.

North British Branch.—The Society's work in North Britain has been carried out most efficiently by the Executive and the officers of the Society. A separate report, giving details of the progress in the various departments of the Branch, is published in the "Journal."

The kelp-industry of Scotland is of very ancient date, and is intimately connected with that of glass. The Celtic vitrified forts, which have puzzled archæologists, arose in this way. Ramparts of sand were covered with dry seaweed and the seaweed set on fire. On the vitrified layer thus formed more sand was piled, and the operation repeated until a vitreous rampart of considerable height and hardness was obtained. One of these forts may be seen not far from Connell Ferry, in Argyllshire.—*Mr. C. G. Cresswell.*

Trade Notes.

Leeches.—Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E., announce that they receive weekly consignments of genuine speckled leeches, which they are able to supply at lowest market prices. They call attention to the fact that they have been direct importers of leeches for over a century.

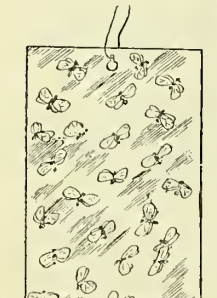
Brand & Co., Ltd., Mayfair Works, 74 to 84 South Lambeth Road, London, S.W., notify advances in the prices of some of their invalid specialities as from April 29. They have, however, fixed the retail prices so as to show a better percentage of profit to the retailer. A list of the principal articles affected will be found in their advertisement.

War on Flies.—History has shown on more than one occasion that disease follows in the track of war, and is frequently carried to countries remote from the scene of the conflict. Scientists assure us that flies are among the most baneful of disease-carriers, and medical men are, in consequence, preaching a "war on flies." The "Cobweb" and "Grip" flypapers advertised by Christy Strong, 115 Chatham Street, Reading, should therefore be in good demand during the summer. The price is now 5*s.* 6*d.* per gross, carriage paid.

Dulciflor Synthetics.—Stevenson & Howell, Ltd., Standard Works, Southwark Street, London, S.E., have produced a booklet dealing with the synthetic-perfume branch of their business which is of particular interest at the present time when the industry in artificial perfumes is making such progress in the United Kingdom. Stevenson & Howell, Ltd., denote their synthetic perfumes under the brand-name of "Dulciflor," and these cover a wide range, the various uses being indicated in the booklet, which those interested should write for.

Serums and Vaccines.—Parke, Davis & Co., 50-54 Beak Street, Regent Street, London, W., give particulars in their announcement of various serums and bacterial vaccines for use in prophylaxis and treatment. The former are made under rigid precautions in the bacteriological laboratories of the firm, and the latter are prepared in the laboratory of St. Mary's Hospital, London, under the direction of Sir Almroth E. Wright. Serum and vaccine therapy are now established methods of treatment, and in view of the fact that these products are being brought prominently before the medical profession, we advise chemists to prepare for the demand that is certain to arise.

Extermino Fly-catchers.—Shirley Brothers, Whitecross Works, Rockingham Street, London, S.E., are sole wholesale agents in the United Kingdom for "Extermino" fly-catchers. These are 2-in. tape fly-catchers, and are clean in use, and neatly put up in parchment-covered cases. For these reasons they should appeal to chemists. An innovation is that a drawing-pin is provided for affixing the tape to the ceiling. The article is British-made throughout. Forward dates of delivery can be accepted, in regard to which inquiries are solicited.



Complexion-powders.—The Johnson Laboratories, 43 Gray's Inn Road, London, W.C., announce in this issue that they are entering upon an advertising campaign on behalf of Barri-agar and Maysenna complexion-powders. The first-named is a pink powder, while Maysenna is white. The powders are stated to have novel features which will promote sales. It is asked that chemists should be prepared for the anticipated demand. The usual wholesale houses stock the powders.

Optical Classes.—Vacation classes will again be held at the British Optical Institute, Fern Lodge, 20A Grove Road, Brixton, London, S.W., during the months of July, August, and September. These classes are mainly practical, and are intended for opticians who wish to increase their knowledge without necessarily desiring to sit for an examination; they also constitute a useful introduction to regular courses of study for the examinations of the Spectacle-makers' Company and the British Optical Association. It is also proposed to hold evening classes in Glasgow in July in preparation for the Fellowship examination of the British Optical Association which is to take place in that city in September.

Season Lines.—We have received from H. E. Stevenson & Co., 122 Great Suffolk Street, London, S.E., specimens of Oxygen straw-cleaner and "Four-medal" brand of One-drop perfumes. These are both suitable lines for the time of the year. The Oxygen straw-cleaner is put up in 2*d.* packets, and attractive advertising matter is supplied, consisting chiefly of appropriate showcards. The cleaner is used for straw and basket goods of all kinds, including straw and Panama hats and basket furniture. The "One-drop" perfumes are alcohol-free and are put up in ornamental tubes containing a glass, and are closed by a glass stopper and gilt cap. There are about twenty different odours, and the perfumes are supplied on cards of a dozen.

Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London. E.C.
Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words).
Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

90/2. Boroformic soap.
85/61. "Hormogen."
89/49. "Eugenic" vacuum-flask.
88/72. Webster's Manilla toilet-paper: makers.
86/55. Marcella powder.
87/44. "Sorline" lung-mixture.
91/61. "Vintelle" corn-cure.
87/64. Formalin and mint-tablets, stamped "Krompresson" and a stag's head.
92/20. "Neutralate" for secreting milk.
93/18. Vitax compound (Raybould).

See also "War Wants Exchange" in the Coloured Supplement.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

Acetylsalicylic acid, 81/2 and 81/33
Antiseptic shaving tablets, 83/201
Boracic socks, 82/66
Brown Medicine Co.'s address, 77/20
Capsotherm, 78/71
Cascade syringes, 79/3
Collosols, 81/71
Cotton swabs (surgical), 81/27
"Dorina" powder, 80/4
Ebonite fittings for douches, 83/62
Emulsio pilm, 80/59
Eosine, 78/73
Epsom salts, 78/52
Glycerin syringes with vulcanite fittings, 83/4
Greaseproof boxes, 81/270
Guaiacol carbonate, 81/330
Hydroquinone, 81/332
Isdale & McCallum's preparations, 83/52
Lactogen, 77/24
Lafitte's toilet - preparations, 77/25
Landau & Co. (address), 83/43
Lead arsenate, 63/451
Lead sulphide (for Amsterdam), 75/14
Leonardi's Golden eye-lotion, 69/41
Liq. delphinine (Hermes), 75/50
Liquor picis aromat., 21/2
Liquor sennæ dulc. (Moir), 75/55
Louvain preparations, 47/40
Luminous paint, 60/63
Lustrite nail-enamel, 66/62
Lysidine, 55/36
Medicamentum Sancti Spiriti, 75/18
Medicinal lamels, 71/27
Melanyl, 75/541
Meta-cresol, 81/33
Metol, 81/331
"Own Name" pommade hongroise, 83/20
"Ozone" tablets (to keep away flies), 79/6
"Phelactine," 82/55
Phenyle, 61/72
"Phosto," 84/8
Pirquet's tuberculin test, 84/9
Pneumosan, 75/59
Potassium chromate, 81/2
Pustolene, 77/20
Radiowull, 71/42
Root's eletzone, 78/50
"Rosol" tooth-powder, 80/60
Ruppel's serum, 84/9
"Samol," 83/15
Schimmelbusch's steriliser, 79/59
Seidlitz-powder weighing machines, 32/34
Sequarine, 75/72
"Silvertown" hot-water bottle, 66/59
Slenderzoon, 77/13
Sodium benzoate (Petrograd inquiry), 68/20
Sodium bisulphite (makers), 70/50
Styptic pencils, 83/200
Sulsol, 76/3
Suppository-moulds, 78/18
Talcum-powder tins, 80/57
Theobromine (for Russia), 68/206
"Three-in-One" oil, 57/58
Thymaglycin, 40/8
Thymol, 60/38, 75/64
Tin-box makers (for Egypt), 59/101
Vacuum flasks, 81/2
Vinegar-manufacturers, 70/74

See also "War Wants Exchange" in the Coloured Supplement.

Observations and Reflections.

By Xrayser II.

"Its Credit is Good,"

says Mr. Coysh, speaking of the London Insurance Committee, but what *is* credit? In this connection the word means, I suppose, reputation of solvency and probity in business. But Mr. Coysh had just said that it is impossible for his Committee to "satisfy the high standard set up by pharmacists." Now, the only standard we have set up in this matter is the payment of what, it is admitted, are our just dues—not a very high standard, surely. If the Committee cannot discharge this debt it can hardly be considered solvent; and if it be replied that the debt is not a legal one, the retort that probity is a moral quality is obvious. The Committee may not be "altogether responsible"; but it is not in a position to boast of its solvency, unless it can give us something more substantial than the hope of being able to pay us some day, and congratulations on our public spirit. Congratulations seem to be the order of the day at these Association meetings, and they are very pleasant; but, as the farmer said of the champagne, we "don't get much forrader" on them alone. Meanwhile the gentle sarcasm of the "Methil Trades Council Gazette" reminds us that we are an object of pity and amusement to the world; we are depicted as lapping ourselves up in our "utter respectability" and laying ourselves in the dust to be kicked by anyone who will. I doubt whether a trade union would help us much, even were it practicable, but our attitude, however "respectable," is not one of which we can be proud. How long shall we be content to play the poor part of the man with a grievance?

The Production of Immunity

from infectious diseases by the prophylactic injection of vaccines will no doubt soon become a recognised procedure in medical practice. The subject is new and hardly known outside medical circles, but the wide publicity given to the results claimed for inoculation in the present war is likely to go a long way to form public opinion, and it is probable that many more meetings similar to those reported by you last week will be held to discuss the question. I observe that Major Lelean claims that the first inoculation gives thirty times and the second three hundred times the normal protection. If this be so, it is reasonable to expect that a third inoculation, as is the custom in America, will confer a still greater degree of protection. Nothing is reported regarding the dose, but this is important, since a larger dose is said to produce longer immunity. For many years the doses employed in this country were, and for civilians still are, 1,000 million and 2,000 million killed typhoid bacilli, but in the Army half these doses are used—namely, 500 and 1,000 million. The American doses are 500 million for the first and two more of 1,000 million each at intervals of a week. Some writers, notably Castellani, advocate a mixed vaccine—for example, the typhoid group and cholera—all being given together in two doses; but recent investigation has shown that when such a poly-vaccine is given there is a pronounced drop of immunity for some days, which in infected districts might lead to disastrous results. Where a multiple immunity is desired it is best to give the various vaccines alternately at intervals of five days, thus: typhoid, cholera, typhoid, cholera. In this way there is no pronounced fall of immunity and no severe reaction, and the inoculations are completed in fifteen days.

The Appointment of Consultants,

medical and surgical, by the Admiralty, at enormous retaining-fees, is, I suppose, a wise precaution, and I presume similar appointments have been made by the War Office. It seems to me that one or two other appointments are even more essential—namely, a few thoroughly impartial practical men in chemistry and pharmacy to advise the authorities in relation to drugs and chemicals. I am not a pessimist, but if the war is going to last to the end of the year we shall see such a famine in drugs and chemicals as has never been known. Even now hardly a single country has six months' supply of any drug, and few of them have six weeks' supply of such drugs as the salicylates and numerous others that might be mentioned. Are our authorities thoroughly alive to the seriousness of the position? It is not enough to worry about checking and preventing expensive prescribing: the trouble will be that we shall soon have nothing to dispense of that great class of remedies which depend on factors that the war has rendered useless for the present and hopeless for many months, if not years, to come. If we are going to muddle through by belated energy at the last moment, it were surely better to make some attempt to prevent the crisis before it develops.

Greek Fire and Stink-pots

are not new in war, but both have for centuries been discarded by civilised peoples. The former is said to have been first used in Europe at the siege of Constantinople by the Saracens, in the seventh century; and it is curious that it, or something like it, should have been again used in a war one result of which will, we may hope, be the expulsion of the Turk from that city. The composition of the fire, invented by Callinicus, a Greek of Syria, was kept for centuries a profound secret, and the many recipes for it that have been published differ widely from one another. Gibbon says the chief ingredient was mineral naphtha mixed with sulphur and the pitch obtained from pines. It produced a loud explosion and thick smoke, followed by a fierce and obstinate flame, which was increased by water. No doubt it contained also nitre, as Roger Bacon says, and was thus an anticipation of gunpowder. Giambattista Porta has a recipe which to the ordinary ingredients adds threads of Ethiopian wool, ardent aqua vitæ, frankincense, and camphor (thus in a sense anticipating guncotton too); and in the Sloane MSS. (7, f. 42) there is one containing turpentine, wine of sulphur, and pigeons' dung. Median fire, the Roman *oleum incendiarum*, and the similar liquid employed by the Chinese, were probably only some kind of rock oil. In more recent times benzol, potassium, and sulphur chloride have been suggested, and it is said in some rare cases used. It appears that our present enemies will without scruple avail themselves of all such aids as chemistry can afford them, either for incendiary purposes or for poisoning the air.

"Success in Business"

is the subject of the series of articles, now completed, which have for weeks past been appearing in the "Daily News," and will be the title of the book about to be issued by C. Arthur Pearson, Ltd., in which they are to be reprinted. The book will be well worth a shilling, but its lessons might be summed up in much shorter space. Publicity, organisation, tact—these are the three things most necessary to success, and the greatest of these is publicity; this is the gist of the book, and it is quite true; the problem is how to apply the principles to practice, and here, it seems to me, we are left much where we were. The capital fault of the work is that it lays too much stress on one form of publicity—namely, newspaper advertising. Since it is for the most part written by advertising agents, and appeared originally in a newspaper, this is natural enough; but seeing that it is addressed to retailers as well as wholesalers, it is a fault, for newspaper advertising is comparatively unimportant to many, if not most, retailers.

Co-ops. and the P.A.T.A.—At a conference of the Northern Section of the Co-operative Societies, held at Cullercoats on April 24, Mr. Flynn (Gateshead) said he felt very strongly that some steps ought to be taken to try to get rid of the P.A.T.A. in a more effective manner than what they had done in the past. Mr. Rae (Central Board) did not think they should say, as Mr. Flynn had said, that the Societies had taken it lying down: and Mr. Aiston (Newcastle) added that, with the exception of the Newcastle Society, he did not think there was a large Society in the North of England that had taken a stand against the P.A.T.A. If it meant closing the shops, he thought it would be far better to close them rather than be dominated by the P.A.T.A.

A WORD OF WARNING.

In view of the present congested state of the Railways, the Trade generally, and especially the Wholesale Trade, are advised to maintain larger "SANITAS" stocks, and to order supplies as far in advance as possible, so as to avoid the delay and inconvenience which may otherwise be incurred.

THE "SANITAS" COMPANY, LIMITED, Locksley Street, Limehouse, London, E.

PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

56 Ludgate Hill, London. REGINALD W. BARKER.

BRITISH ABSOLUTE ALCOHOL.

Jas. Burrough Ltd. *D.I. Cale Distillery, Hutton Rd., LAMBETH, S.E.*

C. & D. BOOKS.

EVERYONE PRACTICAL, MONEY MAKING & MONEY SAVING.

PHARMACEUTICAL FORMULAS. (9th Edition, 1914.) 10/-, by Post 10/6.
ART OF DISPENSING. (9th Edition.) 580 pages, 6/-, by Post 6/4.
VETERINARY COUNTER PRACTICE. 4/-, by Post 4/4.
ELEMENTARY DISPENSING PRACTICE. 3/6, by Post 3/9.
DISEASES AND REMEDIES. (4th Edition.) 3/-, by Post 3/3.
PRACTICAL METHODS OF URINE ANALYSIS. 2/6, by Post 2/9.
THE CHEMIST'S MEDICAL DICTIONARY. 2/6, by Post 2/8.
GUIDE TO PRELIMINARY EXAMINATIONS. 2/6, by Post 2/9.
MANUAL OF PHARMACEUTICAL TESTING. 2/6, by Post 2/9.
OPENING A PHARMACY. (3rd Edition.) 2/6, by Post 2/9.
CHEMIST'S DICTIONARY OF SYNONYMS. 2/6 net, by Post 2/8.
PROVINCIAL HOSPITAL PHARMACOPŒIAS. 2/6, by Post 2/8.

THE CHEMIST AND DRUGGIST, 42 CANNON STREET, LONDON, E.C.
Also Stocked by the leading Wholesale Houses.

Index Folio 614

SUPER-TAX ON WINES.—In the event of the extra duty being modified or withdrawn, the advanced Wholesale and Retail Prices of **VIBRONA** will be correspondingly reduced.

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

The Spirit Proposals.

Never in our experience have the chemical and pharmaceutical industries of this country been so perturbed and threatened as they are at the present time by the Government proposals for the increased taxation of alcohol and alcoholic products imported into or produced in this country. The proposals were submitted by Mr. Lloyd George in the House of Commons on Thursday evening, April 29, when he introduced the Defence of the Realm (Amendment No. 3) Bill dealing with the sale of alcoholic liquors, specific resolutions being submitted afterwards, the same evening, in Committee of Ways and Means. These doubled the present Customs and Excise duties on spirits, quadrupled the Customs duties on wines, and surtaxed beers brewed above 43 degrees gravity (*i.e.*, sp. gr. of the wort 1.043), the basic duty being 17*s.* 3*d.* per 36 gals. The increased spirit and wine duties were imposed on and after Friday, April 30, and the beer-duties were to come into force on Monday, May 3, but have been postponed for two weeks. The Chancellor stated that medicinal spirits would be exempt from the increased tax, but he submitted no method of differentiation. It is understood that he had specially in view Insurance Medical Benefit, the money for which is inadequate to meet the increased charges. The proposals were not received with favour by any section of the House of Commons, and with misgiving and opposition throughout the country; indeed, up to Tuesday of this week, when the real Budget was presented by Mr. Lloyd George, a feeling existed among those who know that the fiscal part of last week's proposal would not be gone on with. After the Chancellor spoke on Tuesday, Mr. Austen Chamberlain addressed the House on behalf of the Opposition (see p. 51), and with such force that Mr. Lloyd George immediately replied to the effect that the Government is "not wedded to any proposals." He said :

"When I brought forward these proposals—they may be right or they may be wrong—I did not conceal it from the House that I wished it had been possible to get complete unity and to approach the matter from another point of view, and that naturally this was the second-best. I should like the House to realise that it has a responsibility of its own. It is not a question of whether the evil has been exaggerated. The question is whether it is an evil. I should really like to appeal to all sections. I am not wedded to any proposals of my own. If anybody has a proposal which could do the thing much better, I should be very glad. Controversy on a large scale I should certainly not face, because I think it would injure the country and create new evils. But may I make this appeal to all sections of the House: that they should assist the Government in doing something, and something substantial, to curb this great evil? Whether the increase in the consumption of spirits is due to the beer-tax or not, it is a fact. I want the House to remember that. As far as I understand, there is practical unanimity about the proposals for taking control in munition areas. I should like the House of Commons, if there are negotiations to take place about taxation, at least to give the Government power at once in the munitions areas."

This, taken with other things said during the debate, is regarded by some authorities as foreshadowing an abandonment of the fiscal part of the proposals. In spirit circles it is felt that some modification of the double spirit-duty will take place as the outcome of the meeting on Wednesday, but the Chancellor was obdurate, and no more can be said than that he "will save from the wreck the principle of the encouragement of light beers, and accompany it with an embargo on raw and immature spirits," which is the sanguine summation of "The Times." Meanwhile, the actual duty is already being paid on deliveries ex contract, but only in a very small way, as everybody is well provided. Should there eventually be a modification no refund will be made by the Excise. No official announcement as to change has been made up to the time of our going to press (but see p. 49), and we therefore consider it desirable to treat the matter as it stands, however strong opinions may be as to abandonment or modification. This article is accordingly a record of what has happened, with comments thereon.

I.—Anticipation.

For several weeks past spirit-distillers have been manufacturing night and day, even on Sundays, owing to the enormous public demands. We understand that many manufacturing firms have withdrawn sufficient supplies from bond to last them until the end of the year, and not a few have a twelvemonth's supply, the forestalling having been unprecedented. We gave an intimation of this in our issue of April 3, about which time the large anticipatory buying commenced. As regards manufacturing-chemists, many of them have their half-yearly spirit-contracts running, but such contracts are subject to the increased duty immediately a rise takes place. We understand that some of the essence-makers have concluded contracts on the basis of the old rate of duty, making the concession that any increase in the tax will be borne by themselves, although, of course, they are entitled to charge the extra imposition. All such essences and fruit-juices will be dearer this season, and, as the latter contain about 30 per cent. of spirit as preservatives, they will be advanced in price according to their alcoholic content. As regards medicinal preparations, matters are extremely complicated as between wholesaler and retailer, owing to statements made about such preparations by the Chancellor of the Exchequer.

II.—The Proposals.

In the course of his first speech (April 29) Mr. Lloyd George said:

"Whatever I propose, I propose as an act of discipline during the war and for the purpose of making war efficiently."

We all sympathise with that, and the object of the increased taxation is to reduce the consumption of alcoholic liquors, first by making them more expensive, and second by encouraging the production of lighter beers and lowering the saleable strength of distilled alcoholic liquors.

The Chancellor could give no estimate as to the effect of the proposed increased duties upon the revenue, except to state that the effect of raising the duty in 1910 from 11*s.* to 14*s.* 9*d.* per proof gal. was to reduce the consumption. We may explain that the total United Kingdom consumption of home-made and foreign spirits in the 1909 fiscal year was 38,939,969 proof gals., it fell to 26,008,262 proof gals. in 1910, and in 1913 had increased to 30,736,088 proof gals. The increased beer-duty imposed last autumn has sent up the consumption of spirits, but how far is not exactly known. The fact is one of extreme political importance at present. The total consumption of spirits in the United Kingdom was 42,205,440 proof gals. in 1904, equal to 1.00 gal. per head of the population, 0.89 being the figure for England, 1.75 for Scotland, and 1.03 for Ireland. Four-fifths of the English consumption is home-made spirits, nine-tenths of the Scottish is "Scotch," and six-sevenths of the Irish consumption is home-made. The figures diminished to 0.52, 1.05, and 0.63 in 1910, and had increased to 0.58, 1.34, and 0.70 proof gal. per head per annum in 1913. Spirits which are used in manufactures are included, but not methylated spirits, of which 7,258,001 proof gals. were made in the United Kingdom in 1913—4,793,198 proof gals. of industrial and 2,464,803 proof gals. of mineralised being received, these figures representing 4,429,201 liquid gals. sent into consumption by methylators. Besides, 719,098 proof gals. of duty-free ethylic and methylic alcohols were delivered for manufacturing and experimental purposes. No figures in regard to the amount of duty-paid rectified spirit used annually for medicinal purposes are available; but Mr. John C. Umney, who has given much attention to this subject, estimates that the spirit-duty paid by the drug-trade is in the neighbourhood of a million a year. That would be doubled by the Government proposal, and this was recognised by Mr. Evelyn Cecil, M.P. for Aston Manor, who asked the Chancellor during last week's debate:

Does the right hon. gentleman's proposal include medicinal spirits?

Mr. Lloyd George: I think there is some special provision for that. I have promised to consider that point. A question has already been put to me by an hon. member opposite, and I propose to deal with that question. We must extend the exemptions there, especially now.

This was a wholly unexpected declaration of a departure from the *non possumus* attitude which hitherto British fiscal authorities have taken on this question, and Mr. W. S. Glyn-Jones was not slow to press the matter home. Before the House went into Committee on Ways and Means, he said:

I ask the indulgence of the House, not to deal with the general question, but to emphasise the importance of the Chancellor and his advisers considering the effect of these fiscal proposals, the effect of the taxation on alcohol, on the administration of the medical side of benefit under the Insurance Act, of medicine generally——

Mr. Lloyd George: I have promised that.

Mr. Glyn-Jones: I only want to say that the time is short, that no one knows better than the Chancellor what a difficult question it is to provide for it, and I ask very respectfully that he will take steps to consult not only the medical profession, but at the same time the pharmacists and manufacturing chemists of the country, with a view to seeing how alcohol which is used legitimately in medicine shall escape the increased taxation.

The Chancellor again referred to the matter when the House went into Committee. In moving the first resolution (as below), he said he had already explained that the Government proposed to deal with this [chloral hydrate, etc.] when they came to their Budget Bill. As at present advised he thought there must be some important exemptions, and they were considering the best method of dealing with the matter. They saw the importance of lightening the duty on what is, after all, an ingredient of healing and curing. He did not propose then to enter into any further discussion upon this aspect of the question. The first motion was as follows:

Spirits (Customs).

That, in addition to the duties of Customs now payable on spirits imported into Great Britain or Ireland, there shall, on and after the thirtieth day of April, nineteen hundred and fifteen, be charged the following duties (that is to say):

	£	s.	d.
For every gallon computed at proof of spirits of any description except perfumed spirits	0	14	9
For every gallon of perfumed spirits	1	3	7
For every gallon of liqueurs, cordials, mixtures, and other preparations entered in such a manner as to indicate that the strength is not to be tested	1	0	0

and the duties of Customs on the articles hereafter mentioned, being articles in which spirit is contained, or in the manufacture of which spirit is used, shall be proportionately increased and shall be as follows:

		£	s.	d.
Chloral hydrate	... the pound	0	3	6
Chloroform	... the pound	0	8	7
Collodion	... the gallon	3	9	1
Ether acetic	... the pound	0	5	1
Ether butyric	... the gallon	2	3	2
Ether sulphuric	... the gallon	3	12	2
Ethyl, iodide of	... the gallon	1	17	7
Ethyl bromide	... the pound	0	2	10
Ethyl chloride	... the gallon	2	3	2

And it is declared that it is expedient in the public interest that this Resolution shall have statutory effect under the provisions of The Provisional Collection of Taxes Act, 1913.

Mr. T. M. Healy, who strongly disapproved of the proposed taxation, calling it "assassin taxation" and "murderous taxation," was quick to see the inconsistency with medicinal exemption of the latter part of the motion, as to doubling the duties on chloral hydrate, etc., and we quote again from Hansard:

Mr. Healy: . . . We are living in a year of wounds, and we are doubling the price of anæsthetics, chloroform, ether, bromide. You are taxing the hospitals as well as the public-houses.

Mr. Lloyd-George: The hon. gentleman must know perfectly well that I never made that proposal, and never attempted to apply it to matters of that kind. If he did not notice it when I addressed the House, I address directly to him now that statement.

Mr. T. M. Healy: It is a great pity; it is not always possible to hear, and I did not hear that statement. . . . I say that we ought not to be left to the indulgence of the right hon. gentleman in that respect. It ought to be in the resolution. These are not matters under the favour of the Chancellor of the Exchequer. These are matters for members of the House of Commons themselves; they are matters dealing with legislation; and the resolution with which I am dealing is a resolution which doubles the tax on hospitals in that respect. Is it so very urgent to pass that resolution to-night in regard to anæsthetics? Why is there this urgency to double the tax to-night upon them? Why include that in the resolution? There should be some merciful consideration for the wounded. Why, then, should you not omit it from your resolution? Why is it inserted?

Mr. Lloyd George was understood to say that it would be omitted.

Mr. T. M. Healy: I am glad to have obtained some redress upon that point.

Accordingly, on the motion of the Attorney-General, the latter part of the motion, from "1*l.*" to "ethyl chloride the gallon 2*l.* 3*s.* 2*d.*," was omitted. The other resolutions are as follows:

Spirits (Excise).

That, in addition to the duty of Excise now payable, for every gallon computed at proof of spirits distilled in the United Kingdom there shall, on and after the thirtieth day of April, nineteen hundred and fifteen, be charged the following duty (that is to say):

	£	s.	d.
For every gallon of spirits computed at proof	0	14	9

and so on in proportion for any less quantity.

And it is declared that it is expedient in the public interest that this Resolution shall have statutory effect under the provisions of The Provisional Collection of Taxes Act, 1913.

Wine.

That in lieu of the duties now payable on wine imported into Great Britain or Ireland there shall, on and after the thirtieth day of April, nineteen hundred and fifteen, be charged, levied, and paid the following duties (that is to say):

Wine:	£	s.	d.
Not exceeding 30 degrees of proof spirit ... ... the gallon	0	5	0
Exceeding 30 but not exceeding 42 degrees of proof spirit the gallon	0	12	0
And for every degree, or part of a degree, beyond the highest above charged, an additional duty ... the gallon	0	1	0
Sparkling wine in bottle, an additional duty ... the gallon	0	15	0
Still wine in bottle, an additional duty ... ... the gallon	0	1	0

And it is declared that it is expedient in the public interest that this Resolution shall have statutory effect under the provisions of The Provisional Collection of Taxes Act, 1913.

In this Resolution the word "wine" includes lees of wine; and the word "degree" does not include a fraction of the next higher degree.

Beer (Customs).

That, in addition to the duties of Customs now payable on beer imported into Great Britain or Ireland, there shall, on and after the third day of May, nineteen hundred and fifteen, be charged, levied, and paid, in the case of every description of beer (other than beer called or similar to mum, spruce, black beer, or Berlin white beer, or other preparations, whether fermented or not fermented, of a similar character), the following duties on heavier beers (that is to say):

For every 36 gallons of beer brewed at a gravity—

	£	s.	d.
Of more than 43 degrees and not exceeding 48 degrees ...	0	12	0
Of more than 48 degrees and not exceeding 53 degres ...	1	4	0
Of 53 degrees and over	1	16	0

And it is declared that it is expedient in the public interest that this Resolution shall have statutory effect under the provisions of The Provisional Collection of Taxes Act, 1913.

Beer (Excise).

That, in addition to the duty of Excise in respect of beer brewed in the United Kingdom, there shall, on and after the third day of May, nineteen hundred and fifteen, be charged, levied, and paid the following duties on heavier beers (that is to say):

For every 36 gallons of beer brewed at a gravity—

	£	s.	d.
Of more than 43 degrees and not exceeding 48 degrees ...	0	12	0
Of more than 48 degrees and not exceeding 53 degrees ...	1	4	0
Of 53 degrees and over	1	16	0

And it is declared that it is expedient in the public interest that this Resolution shall have statutory effect under the provisions of The Provisional Collection of Taxes Act, 1913.

The Independent Irish Party took most of the Excise motions to the Division Lobby, but only five voted against the Government proposals, which were therefore carried.

III.—Differentiation.

Since the first week of April the officers of the Pharmaceutical Society have been in negotiation with the Chancellor's department in regard to the effect of higher alcohol-duty upon the Insurance Act Drug Fund, and the promise made by Mr. Lloyd George is the direct outcome of this intervention. As far as we can judge, about 25 per cent. of the medicines prescribed by panel practitioners are alcoholic preparations, besides those in which alcohol is employed in the course of manufacture, consequently enhancing prices, although it does not remain in the preparations. The dozen most-used medicines under the National Insurance Act are:

1. Glycerinum.
2. *Vin. ipecac.*
3. *Spt. chloroformi.*
4. *Tr. nucis vom.*
5. Potassii iodidum.
6. Sodii bicarbonat.
7. Inf. senegæ.
8. Bismuthi carb.
9. Aq. menthæ pip.
10. *Liq. morphin. hydrochlor.*
11. Sodii salicylas.
12. Quininæ sulphas.

The alcoholic preparations italicised are not placebos, and may be regarded as preparations in which alcohol is essential to their therapeutic reliability. There is a temptation when spirit-duty is increased to reduce or exclude alcohol from medicinal preparations. This (to put the matter bluntly and concisely) has been proved to be a mistake, and we are glad that the Chancellor appears to recognise this, and is boldly setting himself to provide a means of differentiating spirituous medicines from alcoholic beverages. How he is to do it we do not know, and we question if Mr. Lloyd George or any Revenue officers know, but there exists a precedent for pharmaceutical differentiation in the wholesale druggists' S.V.R. licence (Finance Act, 1911, Sec. 9). There is no difficulty in differentiating from alcoholic beverages pharmaceutical preparations which are not or cannot be made potable, but a mere glance at the dozen principal Insurance medicines shows that the recovery of alcohol from them is not difficult. Although we have on many occasions urged the need for duty-free alcohol in manufacturing medicines, we recognise that the difficulties of differentiation must be considered, and the first consideration is the administrative one. It will be noted that the duty is imposed upon "spirits" of any description. The trade practice has been to regard the

term "spirits" as applicable to the potable article, but by law the term includes all kinds of spirits. Section 3 of the Spirits Act, 1880, defines spirits thus:

"Spirits mean spirits of any description, and includes all liquors mixed with spirits and all mixtures, compounds, or preparations made with spirits."

The Revenue Act, 1906, Section 4 (1), is as follows:

The expression "tinctures" includes medicinal spirits, flavouring-essences, perfumed spirits, and any other articles containing spirits and specified in regulations of the Commissioners.

This definition applies only to "tinctures" exported direct from the premises of a compounder, and not exported from a bonded warehouse; although enacted for a specific purpose, it will not be ignored in any consideration of differentiation—indeed, pharmacists who are unacquainted with the intricacies of the spirit laws, but know to what extent the word "tinctures" in their minds means "spirituous medicines," will at once recognise what a heterogeneous class tinctures are to the Revenue authorities. The "tinctures" are only part of the fiscal differentiation problem. The official mind is saturated with "spirits," if we may so put it, which officials classify as follows:

Spirits.—All spirits, whether British or foreign.
Foreign Spirits.—Spirits liable to a duty of Customs.
British Spirits.—Spirits liable to a duty of Excise.
Plain Spirits.—Such as are in their original state, having had no artificial flavour communicated to them.
Spirits of Wine.—Spirits of 43 per cent. over proof and upwards rectified from duty-paid spirits by a licensed rectifier.
Compounded Spirits.—Spirits prepared by a rectifier or compounder by redistilling duty-paid spirits with flavouring-ingredients or adding to them any flavouring-materials.
Liqueurs and Tinctures or Medicinal Spirits.—Compounded spirits the ingredients of which interfere with the correct action of the hydrometer. British liqueurs may be deemed to comprise all sweetened or otherwise "obscured" British compounds, including essences and perfumed spirits of which the true strength cannot be ascertained without distillation.

It ought to be observed that the Revenue authorities are not without knowledge of this problem of differentiation; in fact, they have from time to time considered it in all its bearings with manufacturers of spirituous medicines, especially in regard to the manufacture of these in bond for home consumption or exportation, but no solution of the problem has been found by either side. The difficulty is to devise a means to guard the Revenue, and we cannot illustrate this better than by citing the case of *tinctura limonis*, B.P., and tincture of fresh lemon-peel for lemon-squash. Both are made in the same laboratories, and both may be precisely the same preparation. How for fiscal purposes can the one be differentiated from the other? An answer to this question is so far not forthcoming. We understand that as we go to press Sir L. N. Guillemard, K.C.B., Chairman of the Board of Customs and Excise, is discussing it with a deputation from the Pharmaceutical Society, and the latter are, like "Sentimental Tommy," hopeful of finding a way. There is an alternative to differentiation which would save Insurance Drug Fund depletion by the simple process of adding to it from the new spirit revenue.

IV.—Enforcement.

This we must regard as the matter of the moment—the thing that has been done. The normal and legal trade practice in regard to the sale of dutiable articles is for the first payer to pass on the duty *plus* a profit to the person who purchases from him, and so on to the ultimate user—the public. This holds good in the drug-trade, and manufacturers, wholesalers, and retailers must advance their prices of perfumery, spirituous medicines, toilet-preparations, and any other articles containing alcohol or which are made with alcohol. At the end of the last and the beginning of this week there was some hesitation on the part of manufacturers of spirituous medicinal preparations, consequent upon the adumbrated exemption, but there was no doubt at all that purchasers would have to pay the increased duties which wholesalers have been paying since Thursday of last week. A leading firm of wholesale wine and spirit merchants summed up the general situation in the following announcement:

Until full information of the Government's proposals is available, we are compelled to postpone the revision of strengths and prices, but as further details will no doubt be shortly forthcoming we shall take the earliest opportunity of furnishing our friends with all particulars. In the meantime, as the new taxes operate immediately, no orders can be accepted at old quotations.

The announcements issued by the wholesale drug-trade have differed. Thus in the case of Wright, Layman, & Umney, Ltd., pricing has been delayed in accordance with the following invoice statement:

Pending the decision of the Chancellor of the Exchequer as to duty on medicinal spirits, it is not possible to price the items on this invoice. A priced invoice will be sent at the earliest moment after such decision.

The British Drug Houses, Ltd., invoiced all spirituous preparations at list prices *plus* the new duty *pro rata*, stating:

In the event of an exemption being made in favour of medicinal spirits, we undertake to make, on demand, a rebate in respect of spirituous preparations invoiced by us at the higher rates corresponding to any rebate which may be allowed to us by his Majesty's Customs and Excise.

Another wholesale firm used a "sticker" on their price-list, saying:

The Government proposals include the doubling of the present duty on spirit, so all prices of spirituous preparations are withdrawn. Should this increase be duly ratified by the House of Commons, fresh price-lists will be issued as soon as possible.

Retailers and all others who deal in spirituous preparations for cash have no alternative but to increase their prices, for what they have bought at the higher rates, by at least 3*d.* per fluid oz. for rectified-spirit preparations and 2*d.* per fluid oz. for the proof. Most perfumes will need to be charged 3*d.* per oz. more, and 1*d.* per oz. on medicated wines is needed by retailers to meet the increased duty.

V.—Chancellor's Statement about Duty-Negotiations.

In the House of Commons on Thursday afternoon, May 6, when the second reading of the Defence of the Realm Bill came on, the following remarks were made:

The Chancellor of the Exchequer said that some progress had been made with the negotiations in regard to the new duties, but he was not yet in a position to make any announcement. He was sanguine that an arrangement would be come to within the next twenty-four hours that would be satisfactory to all parties. He was fully alive to the importance of the question, and desirous that those directly affected should receive the earliest possible information of the decision of the Government.

Mr. John Redmond said that until he knew more about the concessions he must remain sceptical.

It will be seen from this that some hope remains of alteration of the surtaxes specified earlier in this article.

Fly Business.

The public are being warned at present in regard to a coming plague of flies, and an exhibition is shortly to be opened at the Zoological Gardens, Regent's Park, London, to help the campaign against the common house-fly, and to show the simple ways in which every person can help.

Traps suitable for hospitals and shops, and others designed for use particularly in rooms and kitchens, will be shown, and demonstrations will be given of methods for dealing with the fly pest at manure-beds and forcing-frames. Chemists have never been slow to help the public to exterminate flies, and we advise them to be ready for the pest by immediate stocking of fly-papers, for in these bright and hot sunny days fly-larvæ are quickly hatched. They may also do something in the way of killing the larvæ by selling borax for the purpose. This has been proved by the United States Department of Agriculture to be the best fly larvicide. The Department experimented with a large number of chemicals with a view to finding something to use on manure-heaps, where flies lay their eggs, which, while increasing the economic value of horse-manure by chemically retarding the great loss in nitrogenous contents from aërobic fermentation in the open, would be effectual in destroying fly larvæ and pupæ in the heaps. The only chemicals that were found satisfactory are borax and calcined colemanite (crude calcium borate). The proportions recommended are about 1 oz. of borax, or $\frac{3}{4}$ lb. of colemanite, per cubic foot. The powdered borax should be applied by means of a dredger immediately the fresh manure is removed from the stable, especially at the outer edges of the pile. Two or three gallons of water are then sprinkled over the heap. This is repeated with each addition of fresh manure. The same treatment may also be applied to floors and crevices in barns, stables, markets, street-sweepings, domestic refuse-heaps, and other places where flies lay. It will be seen that chemists have here a good opening for new business.

Dr. Waldo on Laudanum.

Dr. F. J. Waldo, Coroner for the City of London and the Borough of Southwark, is one of the most thorough men of his class in England, and his report for 1914 is interesting reading for the City Fathers. It tells them things that they, and perhaps others, may not have known before. The following are extracts from his remarks on an inquest which was reported in the *C. & D.* at the time :

The working of the Pharmacy and Poisons Act, and the easy purchase of poisonous drugs, often leading to the "drug-habit," has been illustrated at several inquests during the past year. . . . Aside from any possible laxity on the part of the chemist, nothing is easier than for a person provided with the prescription of a medical man to visit any number of chemists and, without any questions being asked, procure by its means sufficient deadly poison, such as morphine, with which to kill himself and others. All that the law requires is that this poison should be sold by a registered chemist in a bottle distinguishable by the word "Poison," and that the label should bear the name of the drug and the name and address of the seller.

The official "laudanum" now contains 1 per cent. of morphine, and therefore comes into Part I. of the Schedule, which includes "opium, and all preparations or admixtures containing 1 or more per cent. of morphine." At present the public may purchase from a chemist two "laudanums," the one coming under Part II., and the official "laudanum," synonymous with "tincture of opium," 33 per cent. stronger than the former, and coming under Part I. of the Schedule.

It would be greatly to the public interest if the Privy Council disallowed the use of the word "laudanum" save only as a synonym for the now official "tincture of opium."

What the Privy Council has to do with the matter we cannot conjecture, but the fact that "laudanum" is the B.P. 1914 synonym for tincture of opium is *prima facie* evidence that it is the article to sell when laudanum is wanted, and the drug-trade is doing so unless in cases where it is known that the older and weaker preparation is required.

Index Folio 618

Inventions
Which have Become Public Property.

XIII.

[Continued from The Chemist and Druggist, May 1.]

Tussol.

Antipyrin mandelate. Whooping-cough remedy.

Trade-mark : None appears to have been registered at the British Office.

Patent : No. 11774 of 1894, "Manufacture of Mandelate of Antipyrin," granted to the Farbwerke vormals Meister, Lucius & Brüning, Hoechst a/M. This became void in the seventh year.

The process of manufacture is thus given in the specification :

One hundred and eighty-eight parts by weight of antipyrin and 152 parts by weight of mandelic acid are dissolved together in alcohol, benzene, or other solvent, and the solvent is evaporated. A colourless syrup is thus obtained, which on standing for some time solidifies to the condition of a hard crystalline mass. The same compound is obtained by mixing antipyrin and mandelic acid, melting the mixture on a water-bath, and letting it cool down.

Urosin.

Lithium quinate. Used in the treatment of gout.

Trade-mark : No. 216166, registered in 1899 by the Vereinigte Chininfabriken Zimmer & Co. G.m.b.H., Frankfort a/M. Registration renewed in 1912.

Patent : No. 27333 of 1898, "Compounds for Treatment of Gout and Analogous Diseases," granted to the above-named company. The patent became void in the eleventh year.

The specification gives formulæ for pastilles or effervescing powder and effervescing water as follows :

Pastilles or Effervescing Powder.

I.	Quinic acid (or its salts) ...	100 parts
	Magnesia usta	5 parts
	Lithium citrate (or other salt)	33 parts
	Sugar	66 parts
II.	Quinic acid	100 parts
	Lithium carbonate ...	16 parts
	Sugar	84 parts

Effervescing Water.

III.	Quinic acid	300 parts
	Lithium carbonate ...	48 parts
	Carbonic-dioxide water ...	36,000 parts

Validol.

Menthyl valerianate. Carminative and stomachic. Much used for averting sea-sickness.

Trade-mark : No. 216165, registered in 1899 by the Vereinigte Chininfabriken Zimmer & Co. G.m.b.H., Frankfort a/M. Registration renewed in 1912.

Patents : No. 3706 of 1896, "Improvements in the Manufacture and Production of a Pharmaceutical Product," granted to the above-named company. The patent became void in the thirteenth year The corresponding patent in the United States is 574966 (1897).

The specification of the British patent gives the following method of preparing the product, which amounts to a solution of menthol in valerianic ether :

The required quantity of pure menthol may either be dissolved in pure menthol ether of valerianic acid, or in preparing this ether only part of the menthol employed may be converted into ether instead of the entire quantity. The amount of unconverted menthol may be readily determined by saponifying the ether, and then proportioning it to the desired percentage. Good preparations have been obtained by dissolving from 10 to 30 per cent. of menthol in menthol ether of valerianic acid, but the composition may vary according to requirements.

Thistles contain $\frac{1}{2}$ per cent., chrysanthemums $2\frac{1}{2}$ per cent., and absinthe-stems or fumitory 7 to 3 per cent. of potash, and active steps are now being taken towards the commercial production of potash. In the Caucasus there are twenty-four factories producing potash from the stems of sunflowers. In 1907, 14,500 tons was produced.—*Mr. J. H. Dunford.*

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Supply of Artificial Limbs.

Mr. Tennant was asked on Thursday, too late for us to report the reply, whether any arrangements have been made for supplying artificial limbs to wounded soldiers.

Defence of the Realm (Amendment) (No. 3) Bill.

This is the title of a Bill in which power is to be taken by the Government to control the sale and supply of intoxicating liquor in any area where war-material is being made, loaded or unloaded, or dealt with, or where soldiers and sailors are assembled. Power is given to issue regulations to carry out the intentions of the Bill. The Bill is to take effect in defined areas during the continuance of the present war and a period of twelve months thereafter. This Bill is the one upon which the Chancellor of the Exchequer founded his proposals for increasing the tax on spirits and beer.

The Manufacture of Glass.

The President of the Board of Education announced in the House of Commons on Wednesday that no special schools for instruction in glass manufacture exist in Germany or Austria. There are classes on the subject at Stourbridge, Brierly Hill, and Wordsley.—Mr. C. Roberts, in reply to a further question, said the question of the development of the indigenous glass industry is receiving the attention of the Government of India and local Governments.

Both Sir P. Magnus and Mr. Paget have given notice of the following resolution for "an early day":

"That this House welcomes every effort on the part of the Government to secure an adequate provision of the different kinds of optical glass which are used in the manufacture of scientific instruments for the Naval and Military Services; and is of opinion that the further supply of skilled labour for the production of such instruments should be encouraged."

The Drug Funds Deficits.

Our Parliamentary correspondent is informed that, at the request of Mr. E. S. Montagu, M.P. (Chairman of the National Health Insurance Commission), the question which Mr. Snowden was to have addressed to him in the House of Commons on Wednesday in regard to deficits in the Drug Funds has been postponed until Tuesday next. The terms are as follows:

"To ask the Chancellor of the Duchy of Lancaster if he has received a resolution passed by the Insurance Committee for the borough of Blackburn appreciating the action proposed to be taken by the Insurance Commissioners respecting the deficits in the Drug Funds of the various overspent Insurance Committees for the year 1913, and expressing the desire that a Departmental Committee be appointed to inquire into the causes of and remedies for the continuing deficiencies in the Drug Fund in Insurance areas, and for an amendment of Article 40 of the Medical Benefit Regulations; and if it is intended to carry out these suggestions."

Results of Enteric Inoculation.

Mr. Tennant, replying to Sir C. Warner in the House of Commons on Tuesday, said that the latest information with regard to the incidence of enteric fever among the British Expeditionary Force showed that 966 cases had occurred. Of these, 780 had been analysed; 142 cases occurred among those inoculated fully with two doses of vaccine, and there were ten deaths, giving a case mortality of 7 per cent.; 157 had occurred among those who had had only one dose of vaccine. Among them were ten deaths, or a case mortality of 6.36 per cent. Among the uninoculated men there had been 481 cases, and 100 deaths had occurred, giving a case mortality of 20.9 per cent. To appreciate the whole value of these figures it must be brought to notice that 90 per cent. of the troops had been voluntarily inoculated, and therefore among the 90 per cent. there had been 299 cases and twenty deaths, and in the other 10 per cent., 481 cases and 100 deaths.

Early Treatment of Mental Disorder.

Mr. Cecil Harmsworth, Parliamentary Secretary to the Home Office, on April 20, introduced a Bill to facilitate the early treatment of mental disorder of recent origin arising from wounds, shock, and other causes. The Bill provides for a modification of the Lunacy Act, 1890, Section 315 (2), according to which nursing homes cannot receive for treatment patients who are suffering from nervous breakdown affecting their mental condition, even if the breakdown is only of a temporary character. Such patients can only obtain residential treatment if they are certified insane and sent to an asylum or hospital under the Lunacy Acts. The Bill removes the necessity for formal certification in the case of persons suffering from mental breakdown as a result of wounds, shock, etc., on the lines of the Lunacy (Scotland) Act, 1866, Section 13. It is brought forward as a result of the urgent need that has arisen to provide treatment for soldiers, sailors, and others whose health has broken down under the stress engendered by the war, without the necessity of certifying them insane.

Medicinal Spirits.

The Chancellor of the Exchequer, having been asked by Mr. Foster whether he proposes in the suggested increased taxation of spirits to include spirit used in the manufacture of medicine, has replied that he is considering the matter, and that the Board of Customs and Excise are in communication with the Pharmaceutical Society.

Speaking in the debate on the Budget, Mr. A. Chamberlain said in connection with this subject:

Supposing these matters had been thought out beforehand, should we have had the ordinary resolution which was read from the Chair on Thursday imposing this huge new surtax on all the medical drugs into which alcohol enters, and which are urgently needed? The Chancellor did not defend that. The moment it was mentioned he said exceptions would have to be made. Does that not show the haste and lack of thought with which these proposals were brought forward?

On Thursday Mr. Horner put the following question to the Chancellor of the Exchequer:

Whether, having regard to the fact that ethyl alcohol, upon which duty is payable, is essential in the manufacture of many medicines used in both human and veterinary practice, the Government will allow a rebate to be granted to the manufacturers, or other means to be adopted by which this duty will not become a tax upon the alcohol used in their preparation, seeing that otherwise the imposition of the contemplated duties will largely increase the cost of these medicines to all users, and thus press with excessive severity upon the poor and add enormously to the expenses of hospitals and charitable institutions.

The Chancellor of the Exchequer replied that as he had already stated, the whole question is under consideration.

Our Parliamentary correspondent learns that the deputation which the Chairman of the Board of Customs and Excise received on Thursday from the Pharmaceutical Society made representations in connection with the machinery for carrying out the Chancellor's promise in regard to exemptions.

British Dyes, Ltd.

Sir Frederick Cawley on April 29 inquired as to the increase in the price of aniline dyes sold by Read Holliday & Sons since the war, but Mr. Robertson, for the President of the Board of Trade, was not able to supply the information. Mr. Booth also asked if any commission on the sale of Read Holliday & Sons has been paid to any member of the Committee which advocated the scheme or any other intermediary. The reply was that no commission has been or will be paid. In reply to Mr. Pennefather, Mr. Robertson stated that the number of shares allotted up to the day before was, he was informed, 641,509. The consequent liability of his Majesty's Government is to advance 641,509*l.* on debentures, together with a loan of 200,000*l.* to Read Holliday & Sons, Ltd., which will be treated as an advance to the new company on its acquisition of that undertaking. The only amount so far paid by his Majesty's Government is 56,011*l.* 15*s.* 1*d.* in respect of that loan. The Government have also undertaken to make a grant to

the new company not exceeding 100,000*l.* altogether in respect of expenditure incurred by them on research within the next ten years. He understood that the directors of British Dyes, Ltd., have decided to acquire Read Holliday & Sons, Ltd., exercising for that purpose option (*a*) set out in the prospectus. He had seen it stated in the Press that Mr. Joseph Turner will continue to manage that business, but he had no information as to the terms made with him. ["The Times" stated on May 4 that the factories of Read Holliday & Sons, Ltd., passed into possession of the new company on May 1. The business will be continued under the same management, Mr. Joseph Turner having the principal direction. Extensive alterations have been carried out within the last few months, and when the plans are finished the buildings and plant in connection with the dye-manufacturing department of the company will be four times as large as the old works. Mr. James Falconer, M.P. for Forfarshire, has been co-opted chairman of the Board of Directors.]

Manufacture and Export of Morphia.

In the House of Commons on Tuesday, Mr. Theodore Taylor, M.P., asked the President of the Board of Trade to state (1) the total amounts and values of morphia manufactured in the United Kingdom in 1910, 1911, 1912, 1913, and 1914; (2) the amounts and values exported to China, Japan, and Hong-Kong respectively; and (3) whether any provisions are in operation to secure the limitation of its use to medical or other legitimate purposes.—Mr. Runciman replied that there are no available statistics of the production of morphia in the United Kingdom, but he would circulate with the votes a statement showing the exports of morphia to China, Japan, and Hong-Kong. His Majesty's Minister at Peking has reported that the Chinese Government have announced their intention of putting the International Opium Convention into force as from February 11 last, but His Majesty's Government have no information as to the intentions of the Japanese Government in this respect, or as to any regulations in force in either country as to the use of morphia. As regards Hong-Kong, he understands that the Pharmacy Ordinance of 1910 imposes certain restrictions on the importation and sale of morphia.

Mr. Taylor asked whether it is not a fact that there has been an increase in the importation of morphia recently to Japan.—Mr. Runciman replied that he must have notice of the question.

Sir J. D. Rees asked whether the use of morphia has not largely increased since the suppression of the opium traffic.—Mr. Runciman replied that they had no statistics available.

The following statement shows the quantity and value of morphia and morphia salts exported and re-exported from the United Kingdom to the countries specified in each of the undermentioned years:

	Quantity Oz.	Value £
To China—		
1911	15	9
1912	—	—
1913	2 270	1,080
1914	2,329	900
To Japan—		
1911	58,352	24,071
1912	125,907*	68,650*
1913	252 110	118 794
1914	352,130	143,975
To Hong-Kong—		
1911	17,200	6 347
1912	—	—
1913	640	320
1914	—	—

* Includes 1,600 oz., valued at 800*l.*, of morphia, etc., of foreign or colonial origin.

Note.—The exports and re-exports of morphia and morphia salts were not separately recorded in the trade returns of the United Kingdom prior to January 1, 1911.

During the Siamese official year, April 1, 1913, to March 31, 1914, the imports of opium into the consular district of Bangkok amounted to 1,186 chests, valued at 171,515*l.* This was a decrease of 72,000*l.* compared with 1912-13, supposed to be principally due to the large stocks held by the Government at the beginning of the year.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

ENGLAND.

Berkshire.—It was reported to the Insurance Committee on April 24 that the balance of the 1914 accounts had been paid to the chemists, leaving only the extra cost on war-scheduled drugs.

Bolton.—At a meeting of the Insurance Committee on April 29, the Clerk presented a statement showing that 262,627 prescriptions (value 8,578*l.*) were dispensed during 1914. The average number of prescriptions per person on the doctors' lists was 3.71, and the average cost of drugs per insured person was 2*s.* 5.12*d.*

Bristol.—The Insurance Committee on May 4 passed payment to chemists of 70 per cent. of the amounts of their accounts for the first quarter of 1915.

Canterbury.—At a meeting of the Insurance Committee on April 27, the Finance Committee, in accordance with the views of the Commissioners, recommended advances to chemists of 65 per cent. of the amounts of their accounts for the quarter ended March 31. Councillor West, in moving the adoption of the report, expressed regret that the chemists' accounts could not be paid up to a greater extent. The Committee, however, could not pay more than they had got. The report was adopted. The Clerk announced that an additional credit for the year 1913 had been received. This would mean a further payment to chemists of 17*l.* or 18*l.* On the motion of Mr. A. Lander, Ph.C., it was decided to apply for a share of the 60,000*l.* to be allotted for the payment of chemists' accounts. The Clerk stated that out of bills amounting to 680*l.*, 612*l.* had been credited to chemists for 1913. Arising out of a recent conference between doctors and chemists, a letter was read from the Secretary of the Panel Committee, stating that his Committee sees no reason to take any further action with regard to over-prescribing.

Dorset.—The Insurance Committee met on April 24, when the Finance Sub-Committee recommended payments to dispensing doctors of 5*d.* per rural patient on their lists for the quarter ended March 31, 1915. The number of prescriptions dispensed during the quarter was 33,514, at an average cost of 7.82*d.* per prescription. The Committee had also received claims in respect of dispensing for temporary residents amounting to 13*l.* 14*s.* 1*d.*, and charges against the Sanatorium Benefit Fund of 12*l.* 1*s.* 7½*d.*, making 1,118*l.* 6*s.* 8*d.* claimed for drugs. Ninety per cent. of these accounts had been paid, with the exception of the charges against the Sanatorium Benefit Fund, which had been paid in full. The Medical Benefit Sub-Committee reported that they had investigated a complaint against a doctor that he directed a patient to go to a certain chemist to have his prescription dispensed, and that, in the absence of the practitioner, his servant directed the patient and the patient's messenger to obtain certain dressings required from the particular chemist without a prescription having been given for them. The doctor admitted that in the early days of the operation of the Act he had directed patients to go to a particular chemist, but he had ceased to do so. He could not, however, fix the date at which the practice stopped. The Sub-Committee considered that the complaint had been substantiated, and recommended that the doctor should be severely censured and that he should be informed that if the practice continues the Committee will have no alternative but to take severe measures.

East Sussex.—At a meeting of the Insurance Committee on May 4, the Medical Benefit Sub-Committee reported that claims amounting to 886*l.* had been received from fifty-nine chemists for the quarter ended March 31 (claims for the previous quarter, 571*l.*), and twenty-eight accounts had not yet been received. It was estimated that all the accounts would aggregate not less than 1,250*l.*, practically the same as for the first quarter of 1914. The Sub-Committee recommended 80-per-cent. payments on or about May 4 to chemists whose accounts are not less than 1*l.* Mr. Smith strongly deprecated the 20-per-cent. discount, pointing out that the new spirit-duties will considerably raise the price of certain drugs, and the chemist has to pay monthly for his drugs. Mr. Benham agreed. The Joint Committee on Chemists' Accounts recommended that Mr. Adams be instructed to extract samples of the prescriptions given by certain practitioners at Newhaven, Hailsham, and Hove, the three areas in which the average cost of drugs

is highest, and to make a special report thereon to the Panel Committee, with a view to the question of surcharge being considered. The report was adopted.

Huddersfield.—The Medical Benefit Sub-Committee has appointed Mr. E. J. George (Walsall) to check chemists' accounts for 1915 at the remuneration of 7*s.* 6*d.* per 1,000 prescriptions, and has recommended the Panel Committee to have a statistical analysis carried out simultaneously with the arithmetical check at a charge of 2*s.* 6*d.* per 1,000 scripts.

Kent.—At a meeting of the Insurance Committee on April 28, the Medical Benefit Sub-Committee recommended that panel practitioners be informed in the next circular issued to them that in future prescriptions must be properly signed. In reply to Mr. J. E. French, the Clerk stated that until the circular is issued the doctors' initials will be recognised for payment to be made to the chemists.

Lancashire.—To cover the cost of travelling and other expenses incurred by its members in attending the monthly meetings, the Pharmaceutical Committee proposes to make a voluntary levy, not exceeding 0.5 per cent. per annum, on all accounts paid, the levy to be made quarterly and deducted by the Treasurer when paying the accounts, as from January 1915. This is considered necessary in view of the fact that, on account of the area covered by the Committee being very large, the travelling and personal expenses of the members are considerable, and the Commissioners have refused to allow such expenses. It is pointed out that, in addition to being put to considerable expense, many members sacrifice the greater part of a day. Three companies and three individuals with large accounts against the Insurance Committee have agreed to the proposed levy. Agreement cards for signature, authorising the Clerk to the Insurance Committee to make the necessary deductions, have been sent to all chemists in the area. The proposal to pay travelling-expenses, etc., only applies to the fourteen chemist members of the Committee.—New account-cards to take the place of the "buff" doctors' sheets have now been issued. The prices of the prescriptions issued by each doctor are to be entered on the card, and the totals carried to the summary sheets as hitherto. When accounts are sent in each card must be forwarded attached to the prescriptions to which it refers.

Leeds.—The Insurance Committee has paid 42 per cent. of the amounts of chemists' accounts for March.

Leicester.—The Insurance Committee has decided to pay to chemists 82.2 per cent. of the amounts of their accounts for the first quarter of 1915.

Middlesex.—The General Purposes Sub-Committee reported to the Insurance Committee on May 3 that, in a letter dated December 4, 1914, the London Insurance Committee inquired whether the Committee would be prepared to adopt the Pharmacopœia they are preparing for use in Middlesex. The Sub-Committee considered a resolution from the Panel Committee stating that the Panel Committee do not approve of the adoption of this Pharmacopœia, and they (the Sub-Committee) recommended that the London Insurance Committee be informed that the Committee are not prepared to adopt the Pharmacopœia referred to. The Sub-Committee reported consideration of a resolution from the Panel Committee stating that they are far from satisfied with the present arrangements for the checking of prescriptions, together with a report from the Joint Checking Sub-Committee. The Sub-Committee requested the Joint Checking Sub-Committee to consider the matter and report whether the agreement with the London Insurance Committee can be carried out in its entirety, and, if not, to consider what other arrangements can be made. The Sub-Committee also recommended that the attention of the Commissioners be called to the fact that much labour to practitioners and expense to the Drug Fund is incurred through the delay in the receipt of notification of removal from the doctors' lists of persons who cease to be insured. The report was adopted. The Medical Service Sub-Committee reported consideration of a complaint against a panel practitioner, in regard to which they recommended that no further action be taken. An amendment that the report be referred back was carried, but it was decided ultimately that consideration of the matter be adjourned, a member intimating his intention of giving notice of a motion that the procedure of this Sub-Committee be inquired into.

Newcastle-on-Tyne.—Figures presented to the Insurance Committee on April 27 showed a considerable decrease in the drug accounts for 1914. The payments made during the year were as follows: First quarter, 2,840*l.* (8.66*d.* per prescription); second quarter, 2,036*l.* (7.81*d.* per prescription); third quarter, 1,789*l.* (7.6*d.* per prescription); and fourth quarter, 1,364*l.* 10*s.* (6.72*d.* per prescription). The Chairman stated that this was a reduction of 1,500*l.* in less than a year, and the figures made them wonder whether the insured were getting all they ought to get. He thought the Medical Benefit Sub-Committee should pay attention to the adequacy of the prescriptions.

Northamptonshire.—At a meeting of the Insurance Committee on May 1, the Medical Benefit Sub-Committee reported that they had had before them certain prescriptions which had been altered by the chemists who had dispensed them, and had submitted the matter to the Pharmaceutical Committee for inquiry. As a result of the investigations of the latter Committee, it appeared clear that certain chemists had unjustifiably made unauthorised alterations in prescriptions presented to them for dispensing. The Pharmaceutical Committee had censured the offenders, and suggested that a circular be sent to all panel chemists warning them against any alterations in prescriptions after the latter leave the hands of the prescriber, and intimating that any future offences of a like nature will be dealt with very severely. The Sub-Committee recommended that this suggestion be carried out. The Committee agreed.

Portsmouth.—It was reported to the Insurance Committee on April 29 that 1,259*l.* had been advanced to thirty-two chemists in respect of their accounts for the first quarter of 1915, and that the total payments to chemists for the quarter (representing 90 per cent. of the accounts) would probably amount to between 1,450*l.* and 1,500*l.*

Sheffield.—At a meeting of the Insurance Committee on May 5, it was stated that the Panel Committee is prepared to agree to a fee of 1*s.* for emergency dispensing from April 1. They expressed the opinion that as 1*s.* 6*d.* has been previously paid, that sum should be allowed for the first quarter of the year. It was agreed to submit the matter to the Commissioners for approval. The Panel Committee applied for 100*l.* for administrative expenses, in addition to the voluntary levy which has already been made. The application was granted. The Clerk reported that Mr. B. Lancaster, chemist and druggist, the Committee's checker, had applied for a similar position with Durham County at a larger salary. In view of the difficulty of replacing Mr. Lancaster at the present time, he (the Clerk) had, with the sanction of the Chairman of the Sub-Committee, agreed with Mr. Lancaster that if he withdrew his application and agreed to remain with the Committee, a recommendation would be made to increase his salary to 170*l.* per annum as from April 1, to be further increased to 200*l.* in two years. This agreement is subject to the approval of the Commissioners. Mr. J. W. Todd, the Government auditor, states, in his report on the 1913 accounts, that chemists' credits for that period include charges for drugs, etc., supplied to January 14, 1914, inclusive, instead of to January 11, 1914, and as the Drug Fund to January 11, 1914, is insufficient to meet the accounts in full, the division of the Fund among the chemists is inaccurate. It is further stated that in the case of certain chemists on the panel list for 1913 no written or printed agreements have been produced at audit. The amount available for advances to chemists for the first quarter of the year, in accordance with the views of the Commissioners, is 2,938*l.* Payment of 75 per cent. of accounts rendered has been made for January and February, absorbing 1,775*l.*, and payment was passed of a similar percentage of the amounts due for March. Payments to chemists, amounting to 26*l.* 7*s.*, in respect of appliances held by medical men, were also passed. The name of Mr. J. T. Ellinor, chemist and druggist, 76 Spital Hill, was added to the panel of chemists. Mr. J. E. Alcock, Ph.C., notified the Committee that he has closed his branch business at 331 Shoreham Street from the end of April.

Shropshire.—The Insurance Committee has resolved to pay to chemists an advance of 75 per cent. on their accounts for the first quarter of 1915. The Committee has appointed Mr. W. G. Cross, jun., Ph.C., and Mr. W. R. Dunn, chemist and druggist, to check chemists' accounts for 1914.

Smethwick.—The Insurance Committee on April 27 passed payments on account to chemists, amounting to 439*l.*, for the quarter ended March 31.

Staffordshire.—It was reported to the Insurance Committee on May 1 that the average cost of drugs per insured person for the quarter ended October 11, 1914, was 4.6*d.*, and the average cost of prescriptions for the same period 6.77*d.* It has been arranged that panel practitioners will be paid a flat rate of 6*d.* per prescription for medicines supplied to workmen engaged at the military camp at Cannock Chase.

Sunderland.—At the monthly meeting of the Insurance Committee payments to chemists of 90 per cent. of the amounts of their accounts for February were passed. A letter was read from the Commissioners intimating that an early settlement of chemists' accounts for special war-scheduled drugs supplied during 1914 might be expected. The Joint Services Sub-Committee reported that complaints

against two firms on the panel had, on investigation, been substantiated. They recommended that the firms in question should be severely censured and warned that a further offence would involve the removal of their names from the panel list.—An arrangement has been made with the Sanatorium Benefit Sub-Committee that cod-liver oil, cod-liver-oil emulsion, petroleum emulsion, malt extract, and malt and oil, when ordered on Sanatorium Benefit forms, shall be supplied at current Tariff prices, but that no dispensing or emulsion fees shall be allowed.

West Hartlepool.—The Insurance Committee have paid chemists 80 per cent. of their accounts for the first quarter of 1915. The amount of the accounts was 504*l.*, compared with 755*l.* in the corresponding quarter of last year. The deficit is attributed mainly to the large number of insured persons who have joined the Forces, West Hartlepool holding one of the premier positions with regard to enlisting. This state of affairs is regarded with considerable perturbation by the chemists.

Yorkshire (North Riding).—The Panel Committee has refused to acquiesce in the application of the Pharmaceutical Committee for administrative expenses.

Yorkshire (West Riding).—Chemists have received 60 per cent. of their accounts for March 1915. This is the lowest monthly payment yet made in the area, and is the result of paying more than was available (according to the Commissioners' instructions) during the first two months of the year.—The Finance Sub-Committee reported to the West Riding Insurance Committee on April 29 that 80 per cent. of the amounts of chemists' accounts for the quarter ended March 31 had been paid. The instructions of the Commissioners only allowed for a payment of 70 per cent., and adjustment would be necessary at the end of the second quarter of 1915, when only 60 per cent. would be paid. The report was adopted.

SCOTLAND.

Pharmaceutical Standing Committee.

The Secretary (Mr. J. Rutherford Hill) has issued to panel chemists in Scotland Appendix IV. to the Drug Tariff, which takes effect from May 1. There are twenty-seven alterations in prices, the more notable being acid. acetylsalicyl., acid. salicylic., sodii salicyl., ammon. benz., sod. benz., butyl-chloral hyd., guaiacol carb., naphthol., phenacetin, phenazone, salol, and atropinæ sulph. Cod-liver oil is at 1*s.* 9*d.* per imperial pint. Five new drugs are added to the list. In an accompanying circular panel chemists are asked to co-operate in safeguarding the Drug Fund. Attention is particularly directed to the fact that the opposition to the Central Checking Bureau has failed, and that the Regulations have been confirmed by Parliament. Chemists are informed that the Bureau will price prescriptions, and will furnish chemists with a detailed account. Prescriptions should therefore be sent in unpriced, and need not be accompanied by accounts. Any points regarding the checking of prescriptions should be referred to Mr. G. Shiach Kitchin, representing burgh panel chemists, or to Mr. J. Rutherford Hill, representing county panel chemists. [We are informed that chemists who have sent in prescriptions without detailed accounts have been notified that an account is still necessary. The local Insurance officials seem to have had no notification as to the pricing duties of the Bureau.]

Banffshire.—Chemists' accounts from October 11 to December 31, 1914, amounting to 187*l.*, have been paid in full, and it is hoped that, on a final adjustment of the 1914 accounts, chemists' claims for the year will be fully settled. The accounts for the first quarter of 1914 amount to 317*l.*; this is less than the amount for the corresponding quarter of 1914, but is more than for the last two quarters of that year. This is stated to be due to the increased Tariff prices for war-affected drugs. The name of Mr. A. S. Findlay, chemist and druggist, has been added to the panel list.

Notes.

Pharmaceutical Committee Regulations.—The proposed regulations, which were printed in the *C. & D.*, April 10, p. 43, have now been issued by the House of Commons.

Durham County Checking Bureau.—Mr. A. H. M. Purse, chemist and druggist, A.F.I., Sunderland, auditor of accounts to many Insurance Committees, has been appointed Superintendent of the Durham County Insurance Committee's Prescription-checking Bureau, at a commencing salary of 200*l.* per annum. There were eighty-one applicants for the position.

Birth.

Authenticated notices are inserted without charge.

Halstead.—At The Grange, Staines, on April 29, the wife of Reginald G. Halstead, F.C.S. (Burgoyne, Burbidges & Co.), of a son

Marriages.

Authenticated notices are inserted without charge.

Arnold—Foale.—By special licence, at St. John's Church, Paignton, by the Rev. H. M. Young, on May 2, Corporal Robert John Arnold, R.A.M.C., chemist and druggist, eldest surviving son of Mr. and Mrs. R. B. Arnold, Chester House, Rhyl, to Violet Kathleen, youngest daughter of Mr. and Mrs. L. P. Foale, Gerston House, Paignton.

Piprell—Le Poidevin.—At Woolwich, recently, Frederick Piprell, A.O.C., of Guernsey, to Kathleen Powers, youngest daughter of Mr. J. R. Le Poidevin, chemist, 59 Bath Street, St. Helier, Jersey.

Stenlake—Wrenn.—At St. Mary's Church, Taunton, on April 21, Reginald James Luther Stenlake, son of the late Mr. J. D. Stenlake, Linkinhorne (Cornwall), to Hilda Mary, younger daughter of the late Mr. W. A. Wrenn, of Gregory & Wrenn, Ltd., chemists and druggists, Taunton.

Deaths.

Authenticated notices are inserted without charge.

Allanson.—At 1 Claro Villas, Harrogate, on April 30, Mr. Charles Allanson, Ph.C., aged ninety-one. Mr. Allanson was formerly in business in Harrogate, but retired many years ago. He was a Justice of the Peace for the borough, and until two or three years ago was a regular attender on the Bench. For thirty years he held the position of Chairman of the Harrogate Gas Co.

Dickie.—On April 24, Mr. John Dickie, chemist and druggist, Drigg, Holmrook, Cumberland, aged fifty-three. Mr. Dickie served his apprenticeship with Wilson & Kitchin, King Street, Whitehaven, and on the death of Mr. Archibald Kitchin and the retirement of Mr. W. H. Kitchin became one of the partners in the business. He ultimately retired from commercial life on account of failing health. He was one of the founders of the Whitehaven Young Men's Christian Association, of which he was Secretary for many years.

Dowling.—At 18 Eldon Road, Reading, on April 22, Mr. Robert Dowling, chemist and druggist, aged eighty-two.

Hardwicke.—At 4 Cornhill, Bury St. Edmunds, on April 28, Mr. Ezra John Hardwicke, M.R.C.S., aged seventy. He had conducted for many years an open shop which was established by his father.

Harnack.—Professor Erich Harnack, Director of the Halle Pharmacological Institute, has died at the age of sixty-three. He was a native of Dorpat, a student of Schmiedeberg, and was Professor of Pharmacology at Strasburg from 1880 to 1891, when he went to Halle.

Manbre.—At Bromborough, on April 28, Mr. Alfred A. Manbre, principal of the Liverpool Saccharin Co., saccharin-manufacturers, Blackstock Street, Liverpool.

Pearce.—At Norwich, recently, Mr. Charles Edwin Pearce. Mr. Pearce was for several years associated with the late Mr. H. A. King, chemist and druggist, Exchange Street. He was well known in local cricket and football circles.

Rowland.—At Cainscross, Stroud (Glos.), on May 4, Mr. John Llewellyn Rowland, assistant to Mr. S. J. Coley, chemist and druggist, Cainscross, Stroud.

Sell.—At Cambridge, on March 7, Mr. William James Sell, Sc.D., F.R.S., aged sixty-eight. Dr. Sell was connected with the Chemistry Department of Cambridge University for more than half a century, and contributed largely to its development and success. When fifteen years of age he was employed at the laboratory of St. John's College, and there he learnt his chemistry, ultimately having charge of the apparatus and assisting the Professor in the experiments at his lectures. In 1870 he married, and soon after matriculated in the University. He graduated in 1876, obtaining a first class in honours for chemistry, and soon afterwards became principal demonstrator. He was a sound teacher, gaining the confidence of his students by his sincerity and his evident willingness to help them. He was elected a Fellow of the Royal Society in 1900, and took the

degree of Sc.D. at Cambridge in 1906. His chief researches were on pyridine derivatives, in regard to which he contributed several papers to the Chemical Society.

Sturge.—At Colwyn Bay, on May 2, Mr. Charles Dickinson Sturge, of Harborne, aged eighty-two. Mr. Sturge was engaged for many years in the corn-merchants' business of J. & C. Sturge, and also (in partnership with Alderman Clayton) in the manufacturing-chemists' business of J. & E. Sturge.

Wood.—At The Pharmacy, 19 Grimston Street, Beckett Street, Leeds, recently, Frank, son of Mr. J. W. Wood, aged four and a half months.

Killed in Action.

Cuthbert.—Killed in action near Ypres, on April 24, Captain Gordon Cuthbert, of the 8th Battalion Middlesex Regiment, aged thirty-nine. Captain Cuthbert was a partner in the firm of Cuthbert & Hall, oil and tallow brokers, of 7 Fenchurch Avenue, London, E.C., and the Baltic.

Gould.—In France, on April 14, Private Cyril C. Gould, 5th Battalion Royal Warwickshire Regiment (T.F.). Private Gould was formerly employed by Southall Bros. & Barclay, Ltd., Birmingham.

Hooper.—In France, on April 30, Second-Lieutenant David Ernest Hooper, East Lancashire Regiment, son of Dr. David Hooper, F.C.S., etc., and of Mrs. Hooper, Weston-super-Mare, formerly of Calcutta, India.

Macdonald.—Recently, in Belgium, Corporal Macdonald, Gordon Highlanders, aged twenty-four. Corporal Macdonald was formerly employed as an assistant with Mr. A. A. Adam, chemist and druggist, Alyth, Perthshire.

Died on Service.

Webster.—At the 10th Stationary Hospital, St. Omer, France, on April 17, First Air Mechanic Mathew John Webster, Royal Flying Corps, aged twenty. Mr. Webster, who died from cerebro-spinal meningitis after an illness of ten days, joined the photographic studio of Burroughs Wellcome & Co. four years ago, and showed great promise in his work. Five weeks before his death he enlisted in the Royal Flying Corps as a photographic observer. A week after joining he was appointed to the 2nd Wing of the Corps in France, and was subsequently transferred to the 3rd Wing. He was buried in the Souvenir Military Cemetery, St. Omer, on April 20.

Wyley.—Captain Francis J. Wyley, the King's Own Yorkshire Light Infantry, whose death from wounds is reported from France, was a cousin of Colonel W. F. Wyley, F.C.S., Coventry, and served in the South African War. He was thirty-two.

Wills.

Mr. Samuel Gardner Patten, chemist and druggist, Alnwick, who died on February 3, left estate valued at 4,621*l.* 17*s.* 3*d.* gross, with net personalty 644*l.* 5*s.*

Mr. Alfred Neobard Palmer, Ph.C., Inglenook, Bersham Road, Wrexham, who died on March 7, left estate valued at 1,976*l.* 11*s.* 9*d.* gross, with net personalty 1,485*l.* 17*s.* 6*d.*

Mr. Charles William Post, Washington, U.S.A., head of the Postum Cereal Co., Ltd., who died on May 9, 1914, left a fortune valued for probate at 4,294,423*l.*, made up as to $20,552,380 American property and 12,677*l.* in the United Kingdom.

Lieutenant-Commander William St. John Fraser, R.N., 14 Marion Road, Southsea, who died "at sea on active service" on January 21, son of Sir Thos. R. Fraser, M.D., left unsettled property of the gross value of 1,177*l.* 5*s.* 6*d.*, with net personalty *nil.*

Captain Percy Trevenen Mills, 1st Royal West Kent Regiment, of Rookwood, Burgess Hill, Sussex, late of Torfrey, Par, Cornwall, who was killed in action on February 8, left unsettled property of the gross value of 21,772*l.* 3*s.* 11*d.*, with net personalty 18,780*l.* 5*s.* 11*d.*

Mr. Samuel Blandford Turney, Ph.C., 15 Leigham Terrace, Plymouth, who died on April 4, left estate valued at 3,165*l.* 3*s.* 4*d.* gross, with net personalty 332*l.* Probate of his will has been granted to his sons, Mr. John Davy Turney and Mr. Edw. Conge Turney, chemists.

Mr. Joseph Wormald, 70 Oak Street, Southport, retired wholesale druggist, who died on March 3, left estate valued at 3,045*l.* 19*s.* 7*d.* gross, with net personalty 2,256*l.* 12*s.* 2*d.* Probate of his will has been granted to his widow, Mrs. Emma Wormald, Mr. Thos. Paxton, and Mr. Thos. Holland.

Mr Henry Boyers, Ph.C., Sligo, who died on July 18, 1914, left personal estate in the United Kingdom valued at 1,357*l.* 10*s.* 6*d.* Probate of his will has been granted to Mr. Jas. John Nelson and Mr. Joseph Boyers, Earl Street, Dublin, merchants. The testator left his estate upon trust for his wife for life, with remainder to his son Cecil.

Mr. Henry Hill, Thames Bank, Grove Park, Chiswick, W., and of 30 Great St. Helen's, London, E.C., who died on January 15, left estate of the gross value of 145,814*l.* 1*s.* 10*d.*, of which the net personalty has been sworn at 140,385*l.* 9*s.* 1*d.* Probate of his will has been granted to his brother, Mr. Ernest Hill, the sole executor, to whom he left all of his property, subject to a bequest of 2,000*l.* to his sister, Emily Martha Hill.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. Thomas Swales, druggists' sundryman, 89 Albion Street, Leeds, has been elected a people's sidesman for St. Chad's Church, Headingley, Leeds.

Mr. J. E. French, chemist and druggist, High Street, Sittingbourne, has been appointed representative of the Kent Education Committee on the Faversham Higher Education Committee.

Mr. Owen A. Clark, chemist and druggist, of Nunn, Hinnell & Clark, chemists, Bury St. Edmunds, who is now serving his second term as Mayor of the borough, has been appointed a Justice of the Peace for Suffolk.

Mr. J. N. Bryan, retired chemist and druggist, Chatham, has been added to the Commission of the Peace for the county of Kent. Mr. Bryan has been a member of the Medway Guardians for many years, and has long been closely identified with the public work of the borough.

Mr. William Henry Delve, who has been elected President of the Manchester Pharmaceutical Association in succession to Mr. James Grier, M.Sc., is the only one of that name on the Register of Chemists and Druggists. Before entering pharmacy he spent a considerable time in preparing for the ministry, and while studying at the Rotherham Congregational College he found it necessary, for various reasons, to take up a business life; consequently his pharmaceutical career began at an age when many men have already passed the Minor. After being associated with a firm of chemists in the North of England, he settled down at 310 Stretford Road, Manchester, where he has carried on a successful business for the past twenty-seven years. He has been a deacon at the Chorlton Road Congregational Church for ten years and Treasurer for four years. He has served the Manchester Pharmaceutical Association as a Councillor and Vice-President. He takes special interest in Insurance Acts matters, being a member of the local Pharmaceutical Committee, and in that capacity has taken part in the recent tough struggle with the doctors' representatives as to surcharging them for 1913 deficits. The portrait of Mr. Delve which we reproduce is one taken by Mr. John Cleworth on the day after his election.

Mr. W. H. Delve.

Heavy Chemicals.

Manchester May 5.

There is a very featureless market to note. Heavy chemicals are unaltered in all respects. There is a notable change in lead-products, and prices are most irregular; indeed, it is stated on authority that should the demand for military purposes continue some local works will have to shut down. Permanganate of potash and kindred products remain unchanged, although carbonate of potash is quoted 55*l.* for 90-per-cent., and others nominal. Caustic potash, 88 to 90 per cent., 110*l.* Tartaric acid is scarce at 1*s.* 7*d.*; other acids are firm. Sulphate of copper is quiet, at 28*l.* 17*s.* 6*d.* to 29*l.* 5*s.* per ton, Manchester. Sulphur is firmer. Coal-tar products remain steady. Sulphate of ammonia is 12*l.* 15*s.* London, 13*l.* 10*s.* Hull, 13*l.* 15*s.* Leith (July-December, 13*l.* 10*s.*), and 13*l.* 2*s.* 6*d.* to 13*l.* 5*s.* per ton, on rails, Manchester. Carbolic acid, crude, 39°-40° C., is 1*s.* 6*d.*; crude 60-per-cent., East and West Coast, prompt, 3*s.* 6*d.* to 3*s.* 7*d.* Benzols, North, 50-per-cent., 1*s.* 3½*d.* to 1*s.* 4½*d.*; naked, 90-per-cent., prompt, 9*d.* to 10*d.*, North delivery.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., May 6, 6.30 p.m.

A FAIRLY good business continues to be done in chemicals and drugs, both on home and export account. There is no ease in prices to speak of as yet, and under the present abnormal conditions of supply it is difficult to know where to look for relief. The doubling of the spirit-duty in a tentative manner has left the question of a corresponding advance in ethers, chloroform, chloral hydrate, and the wide range of spirituous preparations in a state of suspension, and pending a definite decision prices are left "open." Among fine chemicals English bromides have advanced 9*d.* per lb. nominally. Quinine is again firmer; codeine and morphine both remain firm. Tartaric acid is scarce for prompt, and cream of tartar is 5*s.* better. Other changes include an advance in acetic acid and a weaker feeling in cod-liver and castor oils; large arrivals of Matto Grosso ipecacuanha have taken place; ergot has been in good demand, and Peru balsam is again dearer. Among essential oils the Messina essences are all more or less higher at primary sources. American peppermint oil remains firm; essential camphor oil is easier; and among the fixed oils, linseed, coconut, rape, and turpentine all favour buyers.

Higher	Firmer	Easier	Lower
Acetic acid	Celery-seed	Camphor oil	Coconut oil
Antimony preps.	Cottonseed oil	Castor oil (Eng.)	Linseed oil
Balsam Peru	Cream of tartar	Cod-liver oil	Mercury
Bergamot oil	Galangal	Copaiba (N.Y.)	Opium (N.Y.)
Bromides	Gingers (Cochin, Calicut)	Copper sulphate	Palm oil (Lagos)
Buckthorn bark	Quinine (sec. hands)	Menthol	Turpentine
Lemon oil		Rapeseed oil	
Mandarin oil			
Orange oil			
Salol			
Theobromine			
Vermilion			

A drug-auction will be held next Thursday, May 13.

Cablegrams.

Bergen, May 6.—The Finmarken fishing has improved and is tolerably good, but stormy weather has hindered its full development. The market for finest non-congealing medicinal oil is unchanged.

New York, May 6.—Business in drugs is fair. Opium is lower, at $7.15 per lb. for druggists' quality. Menthol is easier at $2.75. Cartagena ipecacuanha is a further 25c. higher at $4.00 per lb. Copaiba balsam is easier, at 32c. for South American. Buckthorn-bark has advanced to 25c. per lb. for true. Belladonna-leaves are firmer at $1.25, and balsam Peru is higher at $2.80 per lb.

London Markets.

Acetic Acid.—Prices are about 10*s.* per ton higher since we quoted a fortnight ago, having been readjusted in accordance with the advance in grey acetate of lime; they are now as follows: Glacial, 99-per-cent., 60*l.* 10*s.*; 98-per-cent., 60*l.* per ton in carboys. Pure, in casks, varying from 60 to 90 per cent., ranges from 37*l.* to 53*l.* 10*s.*, and technical 80-per-cent. 38*l.* 10*s.* in casks.

Acetic Anhydride is selling at the higher price of 220*s.* per cwt.

Acetyl-salicylic Acid.—We confirm last week's remarks, and repeat that prices should undergo some modification when the supplies from France are available.

Agar-agar is steady, with sales of No. 1 strip for May-June shipment at 1*s.* 5¼*d.* c.i.f., and No. 2 at 1*s.* 4½*d.* c.i.f. terms. Spot is firm at from 1*s.* 11*d.* to 2*s.*

Ammonia Sulphate.—Steady. Grey, 25-per-cent. ammonia, is quoted at 12*l.* 15*s.* per ton net, naked at works, London; Hull, 24-per-cent., is 13*l.* 10*s.*; Liverpool, 13*l.* 10*s.*; Leith, 13*l.* 15*s.*, and July-December 13*l.* 10*s.*, less 3½ per cent. in bags f.o.b.

Antimony is a strong and dearer market, the spot value of English regulus being 97*l.* to 100*l.* per ton net for 99-per-cent., and Chinese 96*l.* net; Chinese crude on the spot is 65*l.* net.

Antimony Preps are all dearer, crocus being quoted 73*s.* and powder 75*s.*; antim. nig. is 60*s.* and powder 63*s.* per cwt.

Atropine.—Very scarce, with small sales of sulphate at 85*s.* per oz.

Balsam Peru.—The spot price is 19*s.* 6*d.*, and to arrive sales have been made at 16*s.*, with 16*s.* 6*d.* c.i.f. asked at the close. New York is reported bare.

Bergamot Oil.—From their lowest point prices have advanced about 2*s.* to 3*s.* per lb., shippers quoting from 11*s.* to 12*s.* 9*d.* c.i.f. The spot value of finest is from 13*s.* to 13*s.* 6*d.*

A Sicilian advice, dated April 24, states that producers, taking advantage of the few orders which came in from consumers, have been pushing up prices. However, they have not succeeded in maintaining the market at the top figures they had been asking, and during the last few days a slight decline has set in.

A further advice, dated May 1, states that the market seems to be settled for the time being at slightly lower prices than those quoted last. During the last days only a few transactions have been closed.

Bromides.—The English makers have further advanced their prices by 9*d.* per lb., and now quote potassium bromide crystals or granulated 5*s.* per lb. and 1-cwt. lots 4*s.* 9*d.*; ammonium bromide, 4*s.* 9*d.*, 1 cwt. 4*s.* 6*d.*; and sodium bromide, 4*s.* 6*d.*, 1 cwt. 4*s.* 3*d.* per lb. net, without engagement. Owing to scarcity of spot stock, a small premium is being paid on makers' nominal quotations.

Camphor (Refined).—Market is practically bare of Japanese slabs, the value being 1*s.* 9½*d.*; further lots are about landing.

Camphor Oil is a trifle easier, with white light essential oil offering at about 85*s.*

Cantharides.—The port of Archangel is expected to be ice-free in a fortnight or less, so that better supplies of Russian should be available shortly; on the spot 11*s.* is quoted.

Castor Oil.—English make is 10*s.* per ton cheaper for first pressing for prompt or June delivery at 40*l.* 10*s.* per ton in barrels, and 35*l.* for July-December delivery f.o.b. Hull, usual terms. Finest pharmaceutical quality for June-December delivery is 3*l.* 10*s.* over the price of firsts, and oil in tins and cases 3*l.* over the respective price in barrels. In Liverpool 5*d.* per lb. is quoted for good seconds Calcutta in store and 3$\frac{15}{16}$*d.* to arrive, at which sales are being made.

Celery-seed is quoted at 67*s.* 6*d.* per cwt. f.o.b

Chiretta.—Sellers ask 7½*d.* to 8*d.* per lb. on the spot; there is a fair demand.

Chloral Hydrate.—To arrive there are sellers in bond at 4*s.* 6*d.* per lb. Pending the settlement of the spirit-duty business has been considerably restricted.

Cinchona.—At the tender to be held at Amsterdam on May 5 the declarations amount to 10,511 packages, weighing 888,524 kilos., manufacturing bark, with a quinine-content of 55,643 kilos. quinine sulphate. The average percentage of the manufacturing bark is 6.26. At the auction of pharmaceutical bark, to be held the following day, 1,020 packages (398 bales and 622 cases) will be offered, weighing 59,924 kilos., with a content of 1,837 kilos. quinine sulphate. The above consists of 54,191 kilos. Succirubra, 3,630 kilos. hybrid, and 2,103 kilos. robustat, of which 27,349 kilos. is root-bark.

Citric Acid remains firm at 2*s.* 6*d.* per lb. on spot.

Cloves.—Quiet, at 7*d.* on spot for fair Zanzibar and at 6$\frac{5}{16}$*d.* c.i.f. d.w. for April-June shipment; June-August delivery is quoted 6$\frac{11}{16}$*d.*

Cocaine.—Hydrochloride is quoted 15*s.* per oz., less 5 per cent., the pure being nominal at 17*s.*

Coca-leaves.—Sales of good green Truxillo have been made at 6½*d.* per lb.; demand is fair. At the auction to be held at Amsterdam on May 6, 3,629 packages Java, weighing 194,873 kilos., will be offered, the total alkaloidal-content being 2,908 kilos. and the average percentage 1.50.

CODEINE remains firm on the basis of 23*s.* per oz. net cash for the pure crystals on contract, and 21*s.* for hydrochloride, sulphate, or phosphate.

COD-LIVER OIL.—The market remains quiet, with sales of finest Lofoten medicinal oil on the spot at 170*s.* per barrel ex wharf, and fair quality 1914 oil at 165*s.* Holders in Norway are not anxious to sell, believing that in the autumn much higher prices will prevail; meanwhile, from 157*s.* 6*d.* to 160*s.* c.i.f. Hull is quoted without engagement for finest non-freezing Lofoten oil.

An Aalesund advice, dated April 21, states that the prospects of the Finmarken fishing have improved somewhat during the last few days, but under present circumstances, when so much medicinal oil is being used for industrial purposes, it will have very little influence upon prices, even if the crop of oil in Finmarken proves bigger than ever before. On the other hand, a smaller crop than anticipated will immediately cause prices to advance.

Our Bergen correspondent writes on April 26 that all our cod-fisheries outside Finmarken are now closed. The catch was on the whole medium, but the yield of cod-liver oil was proportionately rich. The report gives the following final results in Lofoten:

	1912	1913	1914	1915
Catch of cod (millions)...	15.1	10.2	11.7	16
Yield of c.l.o. (hect.) ...	12,000	6,000	9,600	12,650
Yield of liver for raw oils (hect.)	1,200	880	1,020	1,410

For all our cod-fisheries, including the Finmarken spring fishing, the report gives the following total results to April 24:

	1912	1913	1914	1915
Catch of cod (millions) ...	71.2	44 8	61.5	52.7
Yield of c.l.o.(hect.) ...	53,100	28,300	46,000	42,700
Yield of liver for raw oils (hect.)	13,700	6,300	8,900	7,400

The market remains weak, and there is no actual quotation to be given. Prime non-congealing oil is not quoted at more than 160*s.* at present, but there are no buyers or sellers."

According to cabled advices received from Aalesund, the total catch results up to May 1 are as follows:

	Catch of cod	Livers for raw oils (hect.)	Yield of c.l.o. (hect.)
Finmarken, 1915 ...	2,787,000 ...	175 ...	2,181
do. 1914 ...	5,147,000 ...	1,003 ...	4,095
Whole country, 1915...	53,300,000 ...	7,404 ...	43,191
do. 1914...	63,000,000 ...	8,903 ...	46,915

The fishing has been closed everywhere except at Finmarken. The catch in this district is far from being satisfactory, partly on account of scarcity of fish, and partly owing to stormy weather. On the Hamburg market prices are very irregular, and prices have now fallen to m.155 per 100 kilos. (April 24).

COPAIBA BALSAM is quoted at 1*s.* 7*d.* on spot, which price might be shaded for quantity.

COPPER SULPHATE is easier, at from 27*l.* 15*s.* to 28*l.* per ton for the usual Liverpool brands.

CREAM OF TARTAR is firmer, at 150*s.* per cwt. on spot for 99-per-cent.

ERGOT.—Export business is somewhat hampered by delay in granting permits, although there is a very fair stock available. The value of good sound Spanish is about 2*s.* 9*d.*

FORMALDEHYDE.—In order to cope with the large demand, American makers are increasing their output, but it is doubtful if prices will advance further. Sales are being freely made on the basis of 55*s.* per cwt. in casks for 40-per-cent. volume.

GALANGAL.—A fair quantity has been sold at 30*s.* spot, with 32*s.* 6*d.* asked.

GENTIAN.—An arrival of 110 bales has taken place; spot prices vary from 32*s.* to 33*s.*, and c.i.f. at from 29*s.* 6*d.* to 30*s.*

GUAIACOL CARB. to arrive is offered at 14*s.* per lb.

HONEY remains in good demand; the value of fair Jamaica is about 32*s.* 6*d.* Californian is scarce at the moment, but from 200 to 300 cases are due shortly.

HYDROQUINONE continues rather scarce, with sales at from 10*s.* 6*d.* to 11*s.* per lb.

IPECACUANHA.—The *Induna*, from Buenos Ayres, has brought 74 bales Matto Grosso, and the *Araguaya* 52 bales from Monte Video. The London price for Cartagena having been much below the parity of America (where $4.00 is quoted), exports have taken place, up to 9*s.* 3*d.* to 9*s.* 6*d.* having been paid, with one holder asking 10*s.*

JAMBUL-SEED.—Good sound are offered at 7*d.* per lb. on spot.

LEMON OIL.—Higher prices are quoted from Sicily—viz., from 3*s.* 9*d.* to 4*s.* 6*d.* per lb. c.i.f.

A Sicilian advice, dated April 24 (written before the advance), states that the position of the market has remained almost unchanged during the past fortnight. A regular local business has been going on on a fairly large scale, and some orders came in from abroad, without, however, affecting the level of prices. Large holders generally seem to prefer to keep their goods, while sellers have been doing their best to get better prices. However, the uncertainty of the present political situation has a depressing influence, and has prevented the firmer tendency from developing into an actual advance of prices.

A further advice, dated May 1, states that the continued fairly good local demand, and also that from abroad (especially England and the United States), has further strengthened our market. The general position is still the same, and therefore the unwillingness of holders to sell is still noticeable, and this has caused an advance.

LIME-JUICE continues very scarce, the value of Jamaica in puncheons being about 3*s.* 6*d.* per gal. Any arrivals are immediately absorbed.

LIME OIL.—In the absence of first-hand stocks, dealers are asking about 4*s.* for fair West Indian distilled.

LITHIA CARBONATE is offered at 4*s.* per lb.

LYCOPODIUM just landing is quoted at from 4*s.* to 4*s.* 6*d.* per lb.

MENTHOL.—Spot prices are easier at 10*s.* 6*d.* per lb. for Kobayashi-Suzuki, in sympathy with the recent lower offer for shipment from Japan.

MERCURIALS.—There are a few cheap parcels of foreign make offering on the spot, including calomel at 4*s.* 4*d.*, corrosive sublimate at 3*s.* 10*d.*, red iodide at 12*s.*, red oxide at 4*s.* 7*d.*, and yellow oxide at 4*s.* 8*d.* per lb.

MERCURY is easier at 11*l.* 17*s.* 6*d.* to 12*l.* per bottle.

MILK-SUGAR.—Stocks remain small, and, with a fairly good demand, 72*s.* per cwt. is being paid for best powdered.

MORPHINE continues firm, makers quoting on the basis of 13*s.* 6*d.* per oz. net cash for hydrochloride powder. Prompt delivery is unobtainable.

NUX VOMICA.—Madras for May-June shipment is quoted 20*s.* per cwt. c.i.f. London.

OILS (FIXED).—*Linseed* is cheaper at 31*s.* in pipes on spot, 31*s.* 9*d.* in barrels, and May 31*s.* 9*d.* *Coconut* is lower to arrive, Ceylon afloat offering at 42*s.* 6*d.* c.i.f., and on the spot hogsheads are quoted 45*s.* and pipes 44*s.* Cochin is unchanged at 46*s.* c.i.f. for parcels afloat, and spot is 49*s.* to 51*s.* *Rape* is unaltered, at 38*s.* 9*d.* to 39*s.* for ordinary brown crude naked on spot, and 41*s.* to 42*s.* for British refined in barrels. *Cottonseed* is firmer on the week at 31*s.* 6*d.* for crude in pipes on spot, 33*s.* 6*d.* for refined in pipes, and 36*s.* 6*d.* to 38*s.* 6*d.* for sweet refined in barrels. The spot value of Lagos *Palm* is 39*s.* 6*d.*, and in Liverpool 32*s.* is quoted, being cheaper. *Turpentine* is 9*d.* lower on balance, American closing at 36*s.* 6*d.* on spot.

ORANGE OIL is dearer, Sicilian shippers asking from 6*s.* 6*d.* to 7*s.* per lb. c.i.f.; stocks are small in primary markets. *Mandarin* is much dearer at 24*s.* per lb. c.i.f. for genuine.

A Sicilian advice, dated April 24, states that a rather sharp advance has taken place of late, and some local business has been done at the higher figures. Actual consumers, however, do not appear interested in the advance.

A further advice, dated May 1, states that for the small business done it has been necessary to pay the full parity asked by holders, the position being thus maintained.

PEPPERMINT OIL.—American tin oil continues firm at from 7*s.* 6*d.* to 7*s.* 9*d.* per lb. spot. For forward delivery 7*s.* 6*d.* is quoted; the value of Japanese *Mint oil* on spot is 3*s.* 1*d.* to 3*s.* 2*d.*

PINE-NEEDLE OIL.—Siberian is offered at 8*d.* per lb. from spot stock.

POTASH PERMANGANATE is offered at 175*s.* to 185*s.* per cwt. on spot.

POTASHES.—The chief holder in London asks 70*s.* to 75*s.* for Montreal of first Government brand; American is 57*s.* 6*d.*

PYROGALLIC ACID.—Crystals to arrive are offered at 8*s.* and resublimed at 9*s.* per lb.

QUININE.—Makers' prices are unchanged, and in second-hands from 1*s.* 2½*d.* to 1*s.* 2¾*d.* has been paid for spot parcels of comparatively new sulphate.

The London stock on April 30 shows a reduction of 754,384 oz., compared with the corresponding date of 1914, being 2,463,808 oz., against 3,218,19 2oz.; the imports during April were 56,992 oz., and the deliveries 178,304 oz.

Resorcin.—Crystals are quoted at 7*s.* 6*d.* per lb. spot.

Salol is very scarce, and will continue to be so for a lengthy period.

Sarsaparilla.—A lot of 32 bales good grey Jamaica is now landing, and will probably be offered at the forthcoming drug-sale. Lima-Jamaica from second-hands has been sold at 1*s.* 8½*d.*, and red Native Jamaica at from 1*s.* to 1*s.* 1*d.* per lb.

Shellac.—Quiet, at 60*s.* to 61*s.* for the usual standard TN Orange and 60*s.* for free AC Garnet.

Soda Caustic.—The general position is rather easier, possibly owing to the export demand having fallen off at present high prices.

Soda Hyposulphite.—Small crystals of American make are quoted 10*l.* 10*s.* to 11*l.* per ton in barrels.

Squill.—A report is current that the Italian Government has prohibited exportation, but we doubt it. Ordinary brown are offered on spot at 22*s.* and fair at 25*s.* per cwt.

Strontium Bromide is being imported from U.S.A., where prices are rather higher.

Tartaric Acid.—The supply on spot is now extremely short, and the market is very firm at 1*s.* 7*d.*

Theobromine.—English makers have advanced the price of pure to 2*s.* and sodium benzoate and sodium salicylate to 1*s.* 9*d.* per oz. net.

Vanillin.—Two arrivals, aggregating about a ton, have taken place from Switzerland and U.S.A. Spot market is unchanged. New York reports that the demand for export to this side has been heavy, and makers have advanced their price to 40c. to 42c. per oz. (say, 26*s.* 6*d.* to 28*s.* per lb.).

Vermilion.—English makers' price is 2*d.* dearer at 3*s.* 5*d.* per lb.

Arrivals of Chemicals and Drugs.

During the period April 28 to May 4 inclusive the following produce from the places mentioned in parentheses has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.

Acetic acid (Philadelphia) brls. 144
Acetylsalicylic acid (N. York) cs. 8
Aloes (N. York) cs. 10, (C. Town) 10
Ammon. brom. (N. York) pkgs. 13
Ammon. perchlor. (Gothenburg) cs. 250
Anise (Malaga) bgs. 200
Anise oil, star (Hong-Kong) cs. 100
Argol (Naples) cks. 40
Benzoin (Singapore) cs. 17
Bismuth ore (Sydney) pkgs. 30
Buchu (C. Town) bls. 14
Calcium carbide (Fredrikstad) dms. 540, (Odda) dms. 9 030
Calcium fluoride (N. York) pkgs. 13
Canary seed (Morocco) bgs. 1,439, (B. Ayres) bgs. 1,690
Cantharides (Hong-Kong) cs. 40, (N. York) cs. 5
Cardamoms (Colombo) 77, (Tellicherry) cs. 29
Cashew-nuts (India) cs. 300
Cassia oil (Hong-Kong) cs. 60
Chemical prod. (N. York) brls. 56, pkgs. 685, (Treport) cs. 17, cks. 20, (Paris) cbys. 9, cs. 2, (Barcelona) brls. 92
Chloral hydrate (N. York) cs. 15, dms. 20
Chloroform (N. York) cs. 5
Cinnamon and chips (Colombo) 1,140
Citric acid (Palermo) cks. 12, (Paris) cks. 20
Citronella oil (Rangoon) crts. 7
Cochineal (N. York) 15
Coconut oil (Cochin) pps. 497, hds. 575, cks. 189, cs. 2,284
Coriander (Morocco) bgs. 2,150
Cream of tartar (N. York) pkgs. 56, (Marseilles) cks. 6, (Palermo) cks. 80
Cumin-seed (Mazagan) bgs. 487
Dextrin (N. York) bgs. 114
Drugs (Japan) cs. 10, (N. York) cs. 67, (Boulogne) cs. 7, (Alexandria) cs. 22
Ergot (Oporto) pkgs. 4
Essential oils (N. York) pkgs. 73
Eucalyptus oil (Sydney) cs. 80
Fenugreek seed (Saffin) bgs. 631
Formaldehyde (N. York) brls. 25, pkgs. 28
Gelatin (Treport) cs. 17
Gentian (Bordeaux) bls. 110
Ginger (Hong-Kong) cks. 100, (Calicut) 359
Glucose (N. York) brls. 1.099
Glycothymoline (N. York) cs. 670
Gum acacia (Suez) bgs. 490
Gum copal (Hong-Kong) bkts. 62, (Singapore) 124, (Batavia) bkts. 157
Gum damar (Amsterdam) cs. 69
Gums, undescribed (N. York) pkgs. 22, (Bordeaux) bls. 100, bgs. 349
Honey (St. Nazaire) cks. 145, (Frisco) cs. 580
Hydrogen perox. (N. York) cs. 375
Indigo (N. York) bgs. 11, (Bombay) cs. 30
Ipecacuanha (Buenos Ayres) bls. 74, (M. Video) 52
Kieselguhr (Greece) bgs. 19,860, tons 500
Lemongrass oil (Cochin) dms. 2
Lemon-juice (Messina) pps. 30
Linseed (Morocco) bgs. 2,150
Liquorice-juice (Naples) cs. 40
Liquorice-paste (U.S.A.) cs. 250
Magnes. chlor. (Copenhagen) dms. 427
Medicinal prod. (N. York) pkgs. 241
Menthol (Japan) cs. 10
Methyl salicylate (N. York) cs. 37
Mineral waters (Rouen) cs. 206
Mint oil (Japan) cs. 10
Nux vomica (Calicut) bgs. 164, (Cochin) bgs. 1,600, (Calcutta) pickets 1,500
Olive oil (Marseilles) cs. 25, brls. 20, (Malaga) brls. 28, (Genoa) pkgs. 61
Opium (Aden) cs. 50
Oxalic acid (Fredrikstad) cks. 40, (N. York) 15, (Treport) 6
Palma-rosa oil (Bombay) pots 3
Papain (Colombo) pkgs. 12
Peppermint oil (N. York) cs. 114
Perfumery (Boulogne) cs. 90
Petrolatum (N. York) brls. 65
Pharmaceutical prod. (Treport) cs. 100, (Boulogne) cs. 15
Potash bromide (N. York) kgs. 20, cs. 19
Potash perchlorate (Rouen) cks. 400
Potash pruss. (Paris) cks. 10
Quinine (Amsterdam) cs. 25
Quinine hyd. (Amsterdam) cs. 10
Rhubarb (Shanghai) cs. 59
Roots, barks, herbs, etc. (N. York) pkgs. 154, (Marseilles) bls. 109
Saccharin (N. York) cs. 12, (Genoa) cs. 9
Saffron (Valencia) cs. 1
Salicylic acid (N. York) brls. 23
Saltpetre (Calcutta) bgs. 1.000
Sandalwood (Tellicherry) bdls. 212
Shellac (Calcutta) cs. 798; *button* 90, *garnet* 50
Sodium bromide (N. York) kgs. 10, cs. 9
Soy (Hong-Kong) cks. 100
Soya-bean oil (Japan) cs. 500
Tannic acid (N. York) brls. 10
Tartar (Palermo) bgs. 100, (Alicante) brls. 105, (Barcelona) 36
Thorium nitrate (N. York) cs. 14
Turpentine (Bordeaux) cks. 300
Vanilla (Frisco) tins 60, (Bordeaux) cs. 11
Vanillin (Bordeaux) cs. 2
Wax, bees' (N. York) cs. 38, (Bombay) cs. 8, (Oporto) 53, (Morocco) pkgs. 213, (Calcutta) cs. 16
Wax, veg. (N. York) 24
Wine-lees (Valencia) bgs. 232
Witch-hazel ext. (N. York) brls. 10
Wood oil (Hong-Kong) cks. 34
Zinc oxide (N. York) 400

To Liverpool.

Agar-agar (Kobe) bls. 21
Alcohol (B. Ayres) dms. 401
Ammonia (Baltimore) cyl. 300
Argol (Messina) cks. 29
Balsams (Maranham) brls. 8
Boric acid (Leghorn) brls. 14
Casein (B. Ayres) bgs. 200, (St. Nazaire) bgs. 134
Castor oil (Calcutta) cs. 725
Chemical prod. (N. York) kgs. 20, (Barcelona) brls. 92, (Rotterdam) bgs. 75
Citric acid (Palermo) cs. 4
Coconut oil (Colombo) cs. 101
Cream of tartar (Oporto) 9, (Palermo) cs. 40, (Barcelona) brls. 11
Drugs, etc. (Havre) cs. 52, (Vigo) cs. 20
Glycerin (France) cks. 50, (Pasages) 60
Gum almedina (Lisbon) bgs. 41
Gum copal (W.C. Africa) bgs. 11
Gums, undescribed (Parnahyba) bgs. 27, (Lisbon) brls. 80
Honey (St. Nazaire) brls. 47
Ipecacuanha (B. Ayres) brls. 7
Lemon-juice (Messina) cks. 10, pps. 25
Lemon oil (Palermo) cs. 10
Lime-juice (Trinidad) pns. 50
Liquorice-juice (Catania) cs. 12, (Naples) cs. 138
Manna (Palermo) cs. 8
Milk-sugar (Genoa) cs. 48
Olive oil (Valencia) brls. 140, (Malaga) brls. 964, (Naples) cks. 21
Palm-kernels (W.C. Africa) bgs. 60,009, tons 774
Palm oil (W.C. Africa) cks. 5,603
Peptone (N. York) cs. 39
Perfumery (Havre) cs. 70
Quillaia (Valparaiso) bls. 1.316
Saltpetre (Calcutta) bgs. 500
Senna (Alexandria) bls. 25, (Port Said) 40
Shellac (Calcutta) cs. 50
Soy (Hong-Kong) 100
Sulphur (Catania) pkgs. 957
Wax, bees' (Valparaiso) sks. 195, cs. 80, bgs. 181, (W.C. Africa) 26
Wax, undescribed (Maranham) bgs. 263, (Ceara) 432, (Parnahyda) 3,455, (W.C. Africa) bgs. 228, (Pernambuco) bls. 300
Wine-lees (Messina) bgs. 200

To Manchester.

Acetic acid (N. York) brls. 1,474
Aniline dyes (Marseilles) cks. 88, (N. York) kgs. 6
Calcium carbide (Norway) dms. 790
Castor oil (Marseilles) brls. 30
Chloral hyd. (N. York) cs. 5
Citric acid (Marseilles) cks. 78
Coconut oil (Marseilles) brls. 868
Cream of tartar (N. York) kgs. 120, (Marseilles) cks. 13
Dextrin (Philadelphia) bgs. 760, (N. York) 1,030
Glucose (N. York) brls. 20
Lemon-juice (Messina) pps. 40
Liquorice-juice (Catania) cs. 130
Liquorice-paste (N. York) 130
Olive oil (Philadelphia) brls. 10
Potash pruss. (Rouen) cks. 19
Soda acetate (Rouen) cks. 14, (N. York) brls. 130
Soda chlorate (Philadelphia) kgs. 600
Soda phosphate (N. York) brls. 50
Sulphur (Catania) bgs. 4,461, brls. 1,212
Tartar emetic (N. York) cks. 15
Tartaric acid (Marseilles) cs. 12
Thorium nitrate (Philadelphia) cs. 25
Zinc oxide (N. York) 350

To Folkestone.—Chemical prod. (Dieppe) pkgs. 7; perfumery (France) pkgs. 44. *To Hull.*—Chemical prod. (Dunkirk) cks. 318, (N. York) brls. 280; calcium carbide (Odda) dms. 4,400, (Christiania) 750; cod-liver oil (Aalesund) brls. 141, (Bergen) 5; formic acid (Rotterdam) blns. 87; glucose (N. York) 600; linseed (Rosario) bgs. 186,756; potash carb. (Gothenburg) 8; zinc oxide (N. York) brls. 300.

Indigo.

With reference to the acquisition by the British Government of a stock of natural indigo, the Board of Trade announce that the reservation of that stock primarily for the use of dye-users in the United Kingdom will be maintained only until Saturday, May 8, 1915. After that date the Government brokers, Messrs. Lewis & Peat, 6 Mincing Lane, London, E.C., will accordingly be prepared to entertain applications from buyers desirous of exporting natural indigo from this country, and it is therefore advisable that dye-users in the United Kingdom who are desirous of acquiring any portion of the available supplies should make early application to Messrs. Lewis & Peat.

One ton of air-dried kelp yields 500 lb. of potassium carbonate and 3 lb. of iodine.

Correspondence

Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

Partly about Alcohol.

SIR,—Our paternal Government has been teaching us how to do without antipyrin, sulphonal, etc.; it might now show us how to dispense with alcohol—supertaxed. The easiest way, of course, would be to issue an Excise Order making it permissible to use industrial spirit for tinctures. Failing this, I have been experimenting a little with acetone, and I think it might be largely substituted for alcohol where spirit is used as a solvent. The taste is unpleasant, but not nauseating, and it has undoubted medicinal properties as a stimulant and carminative.

Yours truly,

Dublin, May 4. J. C. MCWALTER.

Pharmacists in the Army.

SIR,—I have read with great interest your article *re* dispensers in the Army. As a chemist who joined in August, I should like to relate my experience. My brother, who is also qualified, applied to join the Territorials as dispenser in a field ambulance. Previous to joining we asked what our position would be, and were promised the rank of sergeant immediately on being posted to our unit. We received this rank in about ten days. This carries with it the following pay: As sergeant, 2*s*. 8*d*. per day; special corps pay, 1*s*. per day; as dispenser, 6*d*. per day; total, 4*s*. 2*d*. During March this year we were asked to sit for an examination as Army compounders, but only in such work as is not touched by the Minor; this turned out to be chiefly about the care of rubber goods, surgical instruments, Army forms for supplies, etc. We took this part of the examination, and have just heard that we have passed. We have been out here in France about six weeks. Of course, we have to do our turn of orderly sergeant, etc., but apart from this our principal work is looking after the medical equipment. Taking things all round, we are quite satisfied, except that we consider that all qualified chemists should hold commissioned rank.

Yours faithfully,

M.P.S. (E65/15.)

SIR,—Is anything being done by our Societies in the interests of pharmaceutical chemists and pharmacists who have joined the R.A.M.C. as privates, or who have been transferred into this Corps from other branches of the Service? My own personal experience may be of interest as to the treatment of a M.P.S.I. in the Corps. I joined on September 12, which was some time after the closing of the Corps to specially enlisted dispensers, and on November 26 was sent, with 284 others, to the hospitals of the Southern Command. This number of privates was chosen by lottery from 75 per cent. of F Company, which was over one thousand strong. Seventy-five of us were sent to Netley, and the day after our arrival I and two others were assigned to the duties of *x*-ray room attendants, my work being principally photographic. On January 6 I got my position as dispenser, which I held until leaving Netley this month for Aldershot. This also has been the case of another pharmacist, with the exception that for three months he acted as nursing orderly in the wards. On coming to Aldershot from Netley, we are assigned to the —— General Hospital for overseas service as dispensers; the third dispenser is a pharmacist who is a sergeant; the stripes he obtained by making himself proficient in sanitary work, and he took up this branch as he was anxious for the outdoor life. The —— General Hospital has also just been formed; the three dispensers in it are pharmacists, one a sergeant, who was transferred from another regiment, and two privates. One of the waiting men for the —— and —— General Hospitals is a member of the Irish Society. Our pay has been as follows: September 12 until December 25, 1*s*. 2*d*. per day; from December 25 to the present we have received the fifth-rate Corps pay, 1*s*. 6*d*. a day, and during our dispensing days 6*d*. extra. Members of the St. John's Ambulance Brigade in F Company were on the fifth-rate pay shortly after enlistment, and the question naturally arises, if the S.J.A.B. authorities can look after the interests of their members, why can't the chemists' Societies? It is an impossibility for us who have enlisted to do anything, and any promotion which has been given is not due to qualifications, but is in a manner dependent upon our superior officers. Our Societies are under an obligation to us and to themselves to see that we, who are by law recognised as members of a profession, are treated as such, and should at least have the fifth Corps pay of 1*s*. 6*d*. on joining, and, on being allotted to a position as dispenser, rank as sergeants, with corresponding pay, as is the case in the Regular Army in peace-time. It is with pleasure I write that among those dispensers, qualified or otherwise, who are following up their trade (or profession) or developing housemaid's knee in "K.'s Army," we have very few grumblers, but we all think it is up to the others who are unable to do their little bit for reasons of their own that they should do their best for us . . . I always look forward to the coming of the *C. & D.*, as it is the only link I have with the drug-trade at present—Army dispensing does not count.

Yours truly,

M.P.S.I. (E27/415.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Tincture of Strophanthus, B.P. 1914.

"Is the new tincture of strophanthus a success? The writer prepared a batch, and found that it did not give the expected amount of total solids or of active principle (strophanthin) when assayed by hydrolysis in the presence of dilute sulphuric acid and extraction of the solution with chloroform, as recommended by the late John Barclay. On examination the ethereal extract containing the fixed oil was found to yield to water an intensely bitter taste, and when the aqueous extract was evaporated to dryness a not inappreciable residue was obtained. Is the extraction of the fixed oil with ether desirable, seeing that 'strophanthin is freely soluble in water, less so in rectified spirit, but sparingly soluble in ether and chloroform'? The small quantity of oil extracted by 70-per-cent. alcohol is less objectionable than the loss of active principle by extraction with the ether. Is there not inconsistency in drying the seeds with such care at so inadequate a temperature (45°) to begin with, and again drying at 50° after the oil has been removed, when, in the preparation of the extract, it is directed to evaporate off the alcohol and concentrate the residual liquid until it begins to thicken, before adding the sugar of milk?"—*Abel Scholar.*

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to compounding difficulties. We welcome fresh problems and invite the co-operation and correspondence of dispensers in their elucidation.

An Alkaloid-and-Iodide Mixture.

SIR,—Would it be advisable to dispense the following prescription?—

Pot. iod.	gr. vj.
Liq. strych.	♏iv.
Tr. cinchon. co.	ʒss.
Liq. arsen.	♏ij.
Aq. chlorof. ad	℥ss.

M. ℥xij.

Yours truly,

G. D. (89/16.)

[We do not see any reason why this should not be dispensed: it makes quite a nice mixture, and the doses are moderate. The changes which occur do not increase

toxicity. It is commonly recognised that a larger dose of substance can be safely administered in combination as a double salt than one would care to give of the substance by itself. Donovan's solution may be mentioned in illustration of this principle. To compound, mix the four liquids together, place the potassium iodide in a mortar, and add the mixed liquids gradually, with steady trituration. Dispense with a shake label. The precipitate is very fine and light and perfectly diffusible. We presume that the prescription is submitted on account of the strychnine being thrown out of solution as a double iodide; any risk in that connection is due to the possibility of the patient not shaking the mixture, and so getting more of the alkaloid in the last few doses than in the first. This may be avoided by a proper warning to the patient, and the attention of the prescriber may be called to the matter if a suitable opportunity occur.]

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

Exemplum (83/55).—A customer cannot compel a chemist to supply a copy of a prescription which the chemist has in his prescription-book. If, however, the chemist holds the prescription originally given by the physician to the customer the case is different, and it is not improbable that the customer in such a case is entitled to the original prescription. You will find the whole matter fully discussed in "The Art of Dispensing."

P. F. E. (83/35).—A chemist and druggist who receives from a customer a prescription for an emmenagogue written by a medical practitioner whom he knows, need not trouble about committing an offence under the "Offences against the Person" Act, but it is a different matter when such a prescription is taken from a book by a customer, or when the prescription is one given by a doctor since deceased to some person, from whom the customer has obtained it. If by any chance the medicine dispensed is used for such a purpose as the Act referred to is designed to avoid, the legal responsibility for selling it lies upon the chemist, just as if he supplied the emmenagogue without a prescription.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

R. W. T. (Bombay) (66/26).—(1) Manufacture of Synthetic Perfumes.—There is no book giving complete information on the manufacture of synthetic perfumes. A *résumé* of the subject is given in "Pharmaceutical Formulas" and Parry's "Chemistry of Essential Oils and Artificial Perfumes" (Scott Greenwood, 12*s.* 6*d.*), but in taking up the manufacture of this class of substances it would be necessary to make a special study of each material from patent-specifications before you could obtain sufficient knowledge to make a success of the manufacture. (2) There are no better solvents for essential oils than spirit and glycerin where the resulting solutions are intended for internal use or for perfumes. (3) Gildemeister and Hoffmann's "Volatile Oils" (Pharmaceutical Review Publishing Co., Milwaukee) figures the various stills used in distilling volatile oils. (4) Gelatin Moulds could be rendered impermeable to water by treatment with formaldehyde or tannin solution.

Cela (76/57).—It is the presence of water which is causing the "rainbow" effect in the lacquer which you prepare. The white shellac and methylated spirit should both be freed from water before being compounded.

Dye (75/10).—Hair-restorer.—A formula for the clear variety of hair-restorer was last given in the *C. & D.*, October 11, 1913, p. 66.

Lux (67/25).—The copious application of hot water should remove water-glass from a stone floor unless some chemical combination has taken place, which is not unlikely.

A. W. P. (71/54).—The choice of non-poisonous (in the Pharmacy Act sense) sedative ingredients for use in an infants' carminative mixture is practically limited to the bromides.

Jones (67/48).—Cheap Sauce.—The following are suitable formulæ for a relish for sale in low-priced bottles:

1.

Garlic	½ oz.
Shallots	7 oz.
Salt	4 oz.
Nutmegs	2 oz.
Cloves	2 oz.
Capsicums ...	4 oz.
Indian soy ...	1 gal.
Vinegar	6 pints

Boil gently for fifteen minutes.

2.

Catsup	1½ pint
Salt	4 oz.
Capsicums ...	1 oz.
Pimento	1 oz.
Cloves	½ oz.
Nutmegs	½ oz.
Cassia-bark ...	6 dr.
Tincture of asafetida	½ oz.
Soy	1 pint
Treacle	1 pint
Vinegar	1 gal.

Macerate the spices in the hot vinegar in a closed vessel, and when cold strain and add the other ingredients.

J. M. B. (90/7) says that under the name of Cosmetic Spirit an article is sold which he thinks is industrial methylated spirit, and on the addition of an alkali it becomes black. Does any other subscriber know what it is?

J. S. G. (90/9).—Methylated Hair-washes.—See *C. & D. Diary*, p. 414, under "Liniments and Lotions."

W. R. D. (87/49).—There is no such thing as a N.H.I. Dispensers' examination so-called. Read the *C. & D. Diary*, p. 203, first paragraph.

J. A. P. (72/26).—Book on Dispensing.—You may be referring to Dr. Whitla's "Elements of Pharmacy, Materia Medica, and Therapeutics" (Baillière, 9*s.*), but it hardly comes within your definition of "hints on dispensing."

J. D. G. (43/22).—Vanishing Toilet-cream:

Stearic acid	4 lb. 12 oz.
Glycerin	8 lb. 8 oz.
Distilled water	11 pints
Strong solution of ammonia ...	4 oz. 6 dr.
Eau de Cologne	16 oz.
Oil of hyacinth	6 drops
Oil of jasmin (artificial) ...	4 dr.
Artificial musk	20 gr.
Terpineol	2 oz.

Melt the stearic acid on a water-bath at 75° to 80° C., and heat 2 lb. of the glycerin with 9 pints of water to the same temperature. Add the ammonia to the glycerin solution, and then put in the stearic acid, with constant stirring. Mix the rest of the glycerin and water and heat to 80° C. Pour this into the first mixture with constant stirring, continuing the stirring and maintaining the temperature for about fifteen minutes. Remove from the source of heat, and beat until cold. Mix the perfumes and add slowly, with constant beating.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," May 15, 1865.

Parliamentary Intelligence.

Select Committee on Chemists' and Druggists' Bills.

On the motion of Sir Fitzroy Kelly, the following Members of the House of Commons have been appointed on the Select Committee:

Sir Fitzroy Kelly (East Suffolk), Sir John Shelley (Westminster), Lord Elcho (Haddingtonshire), T. G. Baring (Penryn and Falmouth), Dr. Brady (Leitrim), F. C. Hastings Russell (Bedfordshire), Charles W. Wynn (Montgomeryshire), A. S. Ayrton (Tower Hamlets), G. Sclater-Booth (North Hants), W. Cox (Finsbury), H. W. Schneider (Lancaster), Sir J. Ferguson (Ayrshire), Charles Forster (Walsall), J. A. Roebuck (Sheffield), Adam Black (Edinburgh).

The first meeting of the Committee was held at the House of Commons, in Room 14, on Thursday last. Mr. Baring, Under-Secretary of State for the Home Department, presided.

[Evidence was given by Dr. Alfred Swaine Taylor and Dr. Simon, medical officer of the Privy Council, and was reported in the issue of the above date.]

NATIONAL HEALTH INSURANCE.

HOMŒOPATHIC N.H.I. DISPENSING.
LIBERAL TERMS TO CHEMISTS.

Homoeopathic Medicines in every form supplied in bulk for N.H.I. Dispensing.

PERLOIDS and **TABLETS** are the best forms for Dispensing—the most satisfactory to the doctor and patient; insuring accuracy of dose and ease of administration, and are the *most remunerative* to the Chemist of any form of medicine on the tariff.

SEND FOR PRICE LIST AND TERMS.

Ashwell's Companion to the British & American Homoeopathic Pharmacopoeias. Price 3/6 net.

The best work of reference for Homœopathic Dispensing.

KEENE & ASHWELL, Ltd., *Manufacturing Homoeopathic Chemists,*

6 SOUTH MOLTON STREET (late 74 New Bond Street), LONDON, W.

CHRISTY'S LANOLINE

THE TUBE IS A No. 9, and of pure tin, being offered at

3s. 3/4d. PER DOZ.

To those few who know not the virtues of this special Lanoline, we respectfully suggest the trial of just one dozen tubes. It positively does not separate, is of fine colour, and delicately perfumed. Its carton and label are strikingly distinctive in two shades of blue, in keeping with an article of merit and quality—in short

IT IS THE KIND WORTH BUYING.

IT IS PROTECTED and yields a good Minimum Profit.

P.A.T.A. 6d. PER TUBE.

4 to 12 Old Swan Lane, LONDON, E.C.

PNEUMOSAN

(Reg. Trade Mark)

(Amyl-thio-trimethylamine),

as prepared under the supervision of A. U. Newton, B.Sc., F.C.S. (London), is decidedly the most useful and reliable therapeutic agent in the treatment of tuberculosis. This remedy has been extensively used by thousands of medical practitioners and by hundreds of sanitary institutions during the last four years, and there is a consensus of opinion that the drug can be with safety applied in every type of tuberculosis, and that in the first and second stages the benefits are generally permanent. In more advanced cases improvement is by no means seldom, but to attain a cure persistent treatment is required.

The following is taken from the report of a leading West-end chest specialist :—

"All the cases (8) are proved cases, i.e. the Bacillus of Tuberculosis has been discovered in them—they were also extensively affected—both sides, and in the majority all five lobes. With treatment on ordinary lines one would not expect much benefit in these cases, specially when one considers that the home conditions are, with few exceptions, bad, and that they are not able to obtain a regular supply of good nourishing food. However, all the cases have shown some improvement, which in some is more marked than others, and although it is early to claim them as permanent cures, I have not the slightest doubt that with perseverance in the treatment they will become so. In my opinion we have in Pneumosan a very powerful ally in our struggle against tuberculosis."

The Birmingham General Dispensary, Tuberculosis Department, writes :—

"We are using Pneumosan in a very large number of cases, and the results continue to give satisfaction."

PNEUMOSAN is issued in bottles containing 20 to 30 injections. Price 15/6 per Bottle, carriage paid to any part of the United Kingdom. Trade discount 20%

Order direct from the Manufacturers—

THE PNEUMOSAN COMPANY,

132 GREAT PORTLAND STREET, LONDON, W.

Telephone : Mayfair 1315. *Telegraphic Address : "Numocon, Wesdo, London."*

DRUGS,
PHARMACEUTICALS
AND
CHEMICALS

DRUGGISTS' SUNDRIES, &c. &c.

EVANS

COUNTER ADJUNCTS

OWN NAME & ADDRESS

Lists in English and Spanish.

EVANS SONS LESCHER & WEBB
Limited

LIVERPOOL AND LONDON.

Also New York, U.S.A.

PRECIPITATED CRETA PRÆCIP.

CHALK.

"Sturge's Chalk."

Lightest on the Market.

All grades from the LIGHTEST to VERY DENSE.

MANUFACTURED BY

JOHN & E. STURGE, Ltd., 18 Wheeleys Lane, BIRMINGHAM.

Agents

THE NATIONAL ANILINE & CHEMICAL CO., 100 William St., NEW YORK.
ALPHONSE RUCH, 63 Rue des Archives, PARIS.

Also Manufacturers of—

CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA," and other Effervescent Saline Preparations.

Telegrams: "Sturgeon Birmingham."

MALLINCKRODT CHEMICAL WORKS
OF CANADA, LIMITED.

The products of our manufacture are of the **purest** and **highest** standard. We are in a position to offer to the Mother Country and Sister Colonies a full line of Pharmaceutical and Photographic Chemicals, and solicit your inquiries for

Acid Pyrogallic Crystals and Resublimed	Hydroquinone
Acid Gallic	Rhodol (Metol)
Trional (Methyl Sulphonal)	Acid Tannic
Bromides	Sulphonal
	Hexamethylenetetramine

CABLE ADDRESS - "MALLCHEM MONTREAL."

BANDOENG QUININE FACTORIES

BANDOENG, JAVA. | AMSTERDAM.

QUININE AND QUININE SALTS. SUGAR-COATED TABLETS.
QUALITY AND COLOUR UNSURPASSED.

FOR SAMPLES AND PRICES APPLY TO
Telegrams: "Kininefabriek Bandoeng."
"Semadmy, Amsterdam."

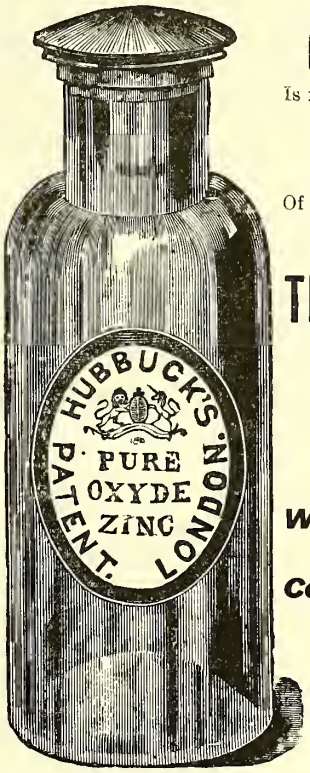
BANDOENG QUININE FACTORIES.
BANDOENG, JAVA. | AMSTERDAM, Keizersgracht 173.

HUBBUCK'S PURE OXIDE OF ZINC.

*Sold by the following Wholesale Druggists in Boxes of **7** lbs. and **14** lbs. stamped by the Manufacturers; also in **1**-lb. Boxes and **1**-lb. Glass Bottles :—*

Allen & Hanburys (Lim.)
Baiss Bros. & Stevenson (Lim.)
Bell, Jno., & Co.
Beasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
British DrugHouses(Lim.)
Burgoyne, Burbidges & Co.
Butler & Crispe
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers. [(Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher & Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan (Lim.)
Harkness, Beaumont & Co.
Hatrick, W. & R., & Co.
Hirst, Brooke & Hirst.
Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edinboro').
Ismay, John, & Sons
Lofthouse & Saltmer (Lim.)
Oldfield, Pattinson & Co
Pinkerton, Gibson & Co.
Raimes, Clark & Co.
Raimes & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R., & Co.
Taylor, James.
Thompson, John (Lim.)
Willows, Francis, Butler & Thompson (Lim.)
Woolley, Jas., Sons & Co. (Lim.)
Wright, Layman & Umney (Lim.)
Wyleys (Lim.)

Barry, E. J., New York.
Carter, Carter & Kilham, Boston.
Finlay & Branswig, New Orleans.
Langley & Michaels, San Francisco.
Lehn & Fink, New York.
McKesson & Robbins, New York.
Muth Brothers & Co., Baltimore.
Roller & Shoemaker, Philadelphia.
Schieffelin, W. H., & Co., New York.
Shoemaker, R., & Co., Philadelphia.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are not traceable.

THOS. HUBBUCK & SON, LTD.

(Established 1765)

24 LIME STREET, LONDON, E.C.

Manufacturers of—

White Lead, White Zinc, Paints, Oils, Colours, Varnishes, &c.

Australian Office—
34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

We make a specialty of the manufacture of

GLYCEROPHOSPHATE OF SODIUM

IN FORM OF PURE CRYSTALS, ALSO ANHYDROUS POWDER.

WE ALSO MANUFACTURE

GLYCEROPHOSPHATE OF CALCIUM, PURE
(Free from added acid or other impurities)

GLYCEROPHOSPHATE OF POTASSIUM 75%

GLYCEROPHOSPHATE OF SODIUM 75%

Monsanto Chemical Works,

ST. LOUIS, Mo., U.S.A.

Manufacturers also of Phenacetin, Phenolphthalein, Vanillin, Coumarin and Saccharin.

GUARANTEE :

CALORIS FLASKS ARE GUARANTEED TO

Keep hot liquids hot 30 Hours;
Keep cold liquids cold 84 Hours

A new interior will be supplied free of charge to *replace any faulty interior returned unbroken.*

The Caloris

is the best Flask on the market.

¶ Note the shock-absorbing spring support.
¶ Note the central and therefore safe position of the pip.
¶ Note the absence of corrugated paper—liable to get limp and musty.

Easiest to take apart and put together.
Sell it and it will bring added credit to you.

LANDAU & CO. 2 Orchard St., Westminster, **LONDON, S.W.**

GEORGE LUEDERS & CO.

NEW YORK, 218, 220 & 211 Pearl Street. CHICAGO, 301 W. Randolph Street. SAN FRANCISCO, CAL., 11 Main Street.

MONTREAL, 396 St. Paul Street. MEXICO CITY, Av. Independencia 10.

Letters address : P.O.B. 1498 NEW YORK. Cable address : "GUALACUM."

Import and Export :

Essential Oils, Olive Oil, Vanilla Beans, Natural and Synthetic Perfumers' Materials.

EMETINE HYDROCHLORID. (Whiffen's)
EMETINE HYDROBROMID. (Whiffen's)
For Hypodermic Injection.

The New Remedy in Amœbic Disease.—Vide *British Medical Journal*, Aug. 24, 1912, pp. 405–408.

Emetine for Hæmoptysis Vide *Press Médicale, Paris*, September 24.—"The result is surprising, hæmorrhage from the lung ceasing at once."—Prof. C. Flandin.

May be obtained, by ordering Whiffen's Brand, from all Chemists and Wholesale Drug Houses in the United Kingdom and Abroad.

WHIFFEN & SONS, LIMITED, BATTERSEA, LONDON, S.W. Telephones—254 and 255 BATTERSEA.

CARBON TETRACHLORIDE

ALSO OTHER NON-INFLAMMABLE SOLVENTS SUPPLIED FROM STOCK.

THE SECURITAS CO., LTD., Manufacturers, 1 Aldersgate Buildings, LONDON, E.C.

Telegrams: "GARAGE LONDON." A B C Code, 5th Edition. Telephone: CITY 3765.

PATTINSON'S

MAGNESIA

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM. ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.C.

A. MILLAR & CO., Ltd., DUBLIN

PURE ORANGE WINE

VINUM AURANTII, B.P. Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

THE BRYTSTELE OUTFIT

For Safety Razors

Safety Razors kept in a Brytstele Bath do not require to be taken apart for cleaning or drying. Brytstele Solution keeps blades sharp for at least two months without stropping. Blades and Holders are kept bright, antiseptic, and free from rust.

ATTRACTIVE OUTFITS AS ILLUSTRATED.

Retail 1s. 6d. each... Trade 13/- doz.
Refill Bottles (4 oz.) 8½d. each ... . 5/6 „
Refill Bottles (10 oz.) 1s. 4d. each ... „ 11/- „

Carriage paid on dozens only. Good Showcards, etc.

THE BRYTSTELE Mfg. Co., 62 Oxford St., London, W.

Chlorate of Potash
Chlorate of Soda
Chlorate of Baryum
Perchlorate of Potash
Perchlorate of Ammonia

Selling Agents: CHAS. MANGOLD & CO., LONDON
9 MINCING LANE.
SOCIÉTÉ D'ELECTRO-CHIMIE, PARIS,
2 RUE BLANCHE.

T.&H. SMITH Ltd

MANUFACTURERS

OF

MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS

EMETINE

CHLOROFORM	CAFFEINE	ALOIN
STRYCHNINE	SALICINE	CAPSICIN
CANTHARIDIN	THEOBROMINE	GINGERIN
PODOPHYLLIN	JALAP RESIN	SCAMMONY RESIN

Blandfield Works, EDINBURGH. ***22 City Road, LONDON.*** ***37 Washington Street, GLASGOW.***

Wladyslaw Hoffman

& CO.,

PETROGRAD & WARSAW

are buyers of pharmaceutical and chemical products, and request manufacturers to submit to them advantageous offers for their goods.

They are likewise exporters of various products of Russian origin.

ALL COMMUNICATIONS TO

WLADYSLAW HOFFMAN

& CO.,

Canal Catherine 27, PETROGRAD, Russia.

Telegrams—" WLAGOFF, PETROGRAD."

French and English Correspondence.

HENRI PELLIOT & CIE,

27 rue des Francs Bourgeois, Paris.

CITRIC ACID
CREAM of TARTAR 98/99%
TARTARIC ACID
ALL ALKALOIDS & CHEMICALS.

TELEGRAMS: "CHARPELLIO PARIS."

Ampoule Files

THE GREATEST PRODUCTION IN THE WORLD.
THE BEST. THE CHEAPEST.

Prices and Samples sent on application to—

SIM LTD., Morges, Switzerland.

POTTER & CLARKE, LTD.

Genuine Speckled

LEECHES

Fresh Arrivals Weekly.

3/6 PER DOZ. At Lowest Market Rates. 3/6 PER DOZ.

We have been direct Importers of Leeches for over 100 years.

POTTER & CLARKE, LTD.

60-64 Artillery Lane, London, E.

Also at 24 LUNA ST., GT. ANCOATS, MANCHESTER.

N.B.—Prices quoted herewith are for preparations according to the New Pharmacopœia, 1914.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Acetanilide, B.P., 1 lb. @ 6/- lb.; powder, 1d. lb. extra.
*Acet. Ipecac., 7 lbs. @ 2/2 lb.
* „ Scillæ, P.B., 7 lbs. @ 4½d. lb.
*Acetone, 6 lbs. @ 1/8 lb.; 1 lb. @ 1/10 lb.
*Acid. Acet. Glacial., 99%, Carboys, 160 lbs. @ 61/-; 12 6-lb. bots. @ 9d. lb.; 6 lbs. @ 10d. lb.
„ Acetylo-Salicyl. 1 lb. @ 26/- lb.
„ Benz, B.P., 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.
„ Boric Pulv., 3 cwt. @ 39/6 cwt.; 1 cwt. @ 40/- cwt.; levigd. 3/- cwt. or ½d. lb. extra.
„ Citric Cryst., B.P., '85, 7 lbs. in Bags @ 2/8 lb.; powder ½d. lb. extra.
„ Diethylbarbituric, 1 oz. @ 3/6 oz.
„ Gallic, pur., P.B., 7 lbs. @ 4/3 lb.; 1 lb. @ 4/6 lb.
* „ Hydrochlor. Coml., cases of 4 2-gal. jars, 18/6 each; 20 case lots @ 17/6 each.
* „ Hydrocyan. P.B., 6 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.; 36 1-oz. Vials @ 3/9 doz.
„ Oxalic Cryst., 1 cwt. @ 11½d. lb.; 14 lbs. @ 1- lb.
„ Phosph. Dil., B.P., 7 lbs. @ 4½d. lb.
„ Salicyl. pulv. 1 lb. @ 8/9 lb.
„ Sulphur, Coml., cases, 4 2-gal. jars, 18/6 each; 20 cases @ 17/6 each.
„ Sulph. Aromat. B.P., 5 lbs. @ 3/8 lb.
„ Tannic, B.P., 1 lb. @ 6/- lb.
„ Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 1/8 lb.; parv. ½d. lb. extra.
Adeps Benz., B.P., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.
Ærugo Æris Pulv., 14 lbs. @ 11d. lb.
Aloes Barb., English ground, 28 lbs. @ 105/- cwt.; 7 lbs. @ 1/- lb.
Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/6 lb.
Aloin, B.P., 1 lb. @ 4/9 lb.
Ammon. Benz., 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.
Ammon. Brom., P.B., 7 lbs. @ 4/8 lb.
Ammon. Carb. lump, 3 cwt. @ 4½d. lb.; 28 lbs. @ 6d. lb.; 7 lbs. @ 6½d. lb.; powder, ½d. lb. extra.
Ammon. Chlor., 99% pulv., 1 cwt. @ 44/- cwt.; 7 lbs. @ 6d. lb.; Batteries, 4/- cwt. extra.
Amyli Pulv., 2½ cwt. @ 16/8 cwt.; 1 cwt. @ 18/6 cwt.
Aniseed, English ground, 1 cwt. @ 68/- cwt.; 7 lbs. @ 8d. lb.
Antim. Nig. Pulv., 1 cwt. @ 60/- cwt.; 14 lbs. @ 64/- cwt.
Antim. Tart. pulv., 7 lbs. @ 2/6 lb.
Apiol, 1 lb. @ 34/- lb.

Bals. Copaibæ, pure, 44 lbs. @ 1/10 lb.; 9 lbs. @ 2/1 lb.; 1 lb. @ 2/5.
„ Sulphur, 7 lbs. @ 9d. lb.
„ Tolut. B.P., 50 lbs. @ 2/7 lb.; 1 lb. @ 3/1 lb.
Bismuth, P.B., Carb., 7 lbs. @ 11/10 lb.; 3 lbs. @ 12/2 lb.; 1 lb. @ 12/6 lb.; subnit. 1/- lb. less.
Boracic Mixture, 1 cwt. @ 47/- cwt.
Borax, 1 cwt. @ 25/6; powder 1/- extra.
Butyl-Chloral Hydras., P.B., 1 lb. @ 14/- lb.

Caffeine, P.B., 1 lb. @ 19/3 lb.
Caffeinæ Cit., B.P., 1 lb. @ 14/- lb.
Calamina, powder, fine pink, 5 cwt. @ 11/6 cwt.; 1 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.
Calamine, B.P., 1885, 7 lbs. @ 1/- lb.
Calcii Carb. Præcip., 5 cwt. @ 14/6 cwt.; 1 cwt. @ 17/6 cwt.; 28 lbs. @ 22/6 cwt.
„ Hydras., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.
„ Hypophosph. Pur., P.B., 1 lb. @ 2/3 lb.
„ Iodid., 1 lb. @ 18/6 lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 2/4 lb.; ½ oz. or ¼ oz. 7 lbs. @ 2/6 lb.; Crude, good white, about 92% as imported, 140 lbs. @ 1/9½ lb.; 28 lbs. @ 1/10½ lb.
Cantharides, Russian, 7 lbs. @ 18/9 lb.; powder 6d. lb. extra.
Capsicine, soluble, 1 lb. @ 6/6 lb.
Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 16/- cwt.; 28 lbs. @ 2½d. lb.
Cardamoms, 28 lbs. @ 4/3 lb.; 7 lbs. @ 4/6 lb.
Carmine, Finest, 1 lb. @ 25/- lb.; No. 2, 1 lb. @ 20/- lb.
Cera Alba, B.P., WhiteMoons, 28 lbs. @ 2/2½ lb.; 4 lbs. @ 2/4 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/9½ lb.; 4 lbs. @ 1/10½ lb.; 1 oz., ½ oz. tabs., 7 lbs. @ 1/10½ lb.
Cerii Oxalas, 7½ lbs. @ 2/3 lb.
Cetaceum, No. 1, fine white, 64 lbs. @ 11d. lb.; 7 lbs. @ 1/1 lb.; powder, 7 lbs. @ 1/6 lb.;
*Chloroform, pure, B.P., 12 8-lbs. @ 1/11 lb.; 8 lbs. @ 2/- lb.; 6 1-lb. bots. @ 2/2 lb.
Cocaine Hydrochlor., B.P., 4 ozs. @ 16/6 oz.; 1 oz. @ 17/- oz.
Codeina, 1 oz. @ 25/6 oz.; Phosph., 1 oz. @ 21/- oz.; Hydrochlor. or Sulph., 1 oz. @ 22/- oz.
Colocynth, Apple, English ground, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/6 lb.
Composition Powder (Coffin's), 1 cwt. @ 58/- cwt.; 7 lbs. @ 7½d. lb.
Conf. Sennæ, P.B., 14 lbs. @ 10½d. lb.; 7 lbs. @ 11d. lb.
Cort. Aurant. Exot. Shreds, 7 lbs. @ 2/- lb.
„ Cinchon. Rub. (Quill), 7 lbs. @ 1/- lb.
„ Ulmi Fulvæ, Pulv., 1 cwt. @ 8½d. lb.; 7 lbs. @ 10d. lb.
Cream of Tartar, 98% powder, 1 cwt. @ 149/- cwt.; 7 lbs. @ 1/6 lb.
Creasote, Beechwood, P.B., 7 lbs. @ 3/6 lb.

Emp. Spread, 12 yards × 16 ins. adhesive, 3/8; Bellad. B.P.C., Green @ 17/6; Cerat. Saponis @ 7/6; Picis Co. @ 7/6; Plumbi @ 6/-; Resinæ @ 4/6; Roborans @ 7/-; Saponis, B.P., @ 6/-.

In consequence of the unsettled state of the price of Alcohol we are unable to definitely fix our rates for lines containing Spirit. We will do so as soon as we possibly can.

Emp. Picis, P.B., 7 lbs. @ 8½d. lb.
„ Plumbi, P.B., 7 lbs. @ 8½d. lb.
„ Resinæ, P.B., 7 lbs. @ 8½d. lb.
„ Roborans, 7 lbs. @ 8½d. lb.
Emulsio Ol. Morrhuæ, 5 lbs. @ 1/- lb.
Eserine Sulph., in 15-grain tubes, 6/9 each.
Ess. Bergam. (Oil), 12 lbs. @ 12/6 lb.; 1 lb. @ 13/6 lb.; not guaranteed absolutely pure.
Ess. Limonis (oil) original coppers, 12 lbs. @ 4/- lb.; 6 1-lb. bots. @ 4/6 lb.; not guaranteed absolutely pure.

Ferri Ammon. Cit., P.B., 28 lbs. @ 2/10 lb.; 7 lbs. @ 2/11½ lb.
Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.
Ferri et Quininæ Cit., P.B., 100 ozs. @ 6½d. oz.; 25 ozs. @ 7½d. oz.
Ferri Sulph., pure cryst., 1 cwt. @ 15/-; 7 lbs. @ 3d. lb.
Ferrum Redact., 80%, 28 lbs. @ 3/6 lb.; 7 lbs. @ 3/9 lb.
Flor. Anth. Exot., 7 lbs. @ 1/6 lb.
Fol. Buchu, oval, good green, 7 lbs. @ 2/8 lb.
Fol. Hyoscyam. Bien., 7 lbs. @ 5/- lb.; pulv., 4/6 lb.
Fol. Sennæ Alex. parv., 28 lbs. @ 7½d. lb.
Fol. Sennæ Tinnev., 1 cwt. at 7½d. lb.; 7 lbs. @ 8d. lb.; English Ground, 56 lbs. @ 11½d. lb.; 7 lbs. @ 1/0½ lb.
Formaldehyde, 40%, 4 cwt. barrels @ 64/- cwt.; 132 lb. carboys @ 69/6; 7 lbs. @ 10½d. lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 5/- cwt.; 1 cwt. @ 6/- cwt.

Gallæ Cærul. Pulv., 7 lbs. @ 1/- lb.
Gamboge, English Ground, 7 lbs. @ 3/6 lb.; 1 lb. @ 3/10 lb.
Ginger, English Ground, 1 cwt. @ 46/- cwt.; 7 lbs. @ 7d. lb.
Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.
Glycerin. Opt. D.D., 1.260 P.B., 1 cwt. @ 106/- cwt.; 56 lbs. @ 108/- cwt.; 12 lbs. @ 1/2 lb.
*Glycerin. Acid. Boric, P.B., 6 lbs. @ 1/6 lb.
* „ Acid. Carbolic. P.B., 6 lbs. @ 1/8 lb.
* „ Acid. Tannic, P.B., 6 lbs. @ 2/2 lb.
„ Belladon. B.P.C., 6 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.
*Glycerin. Boracis, P.B., 6 lbs. @ 1/3 lb.
* „ Pepsin. Acid, P.B., 1 lb. @ 3/6 lb.
* „ Plumbi Subacet. P.B., 6 lbs. @ 1/7 lb.

Insect Powder, Opt., English Grd., closed flowers, 28 lbs. @ 2/11 lb.; 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less.
Iodoform Pulv. B.P., 7 lbs. @ 18/6 lb.; 1 lb. @ 19/-
Iodum resub. B.P., 7 lbs. @ 16/6 lb.; 1 lb. @ 17/- lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/6 lb.; sifted, 3d. per lb. extra.

Lapis Pumicis, fine powder, 2 cwt. @ 8/- cwt.; 7 lbs. @ 1½d. lb.; lump, 2 cwt. @ 12/- cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, 4 and 2-oz. Sticks, 1 cwt. @ 82/6 cwt.; 28 lbs. @ 9½d. lb.; 7 lbs. @ 10½d. lb.
*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.
* „ Bellad. Meth., 5 lbs. @ 3/3 lb.; 1 lb. @ 3/6 lb.
„ Camph. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @ 1/1 lb.
„ Sapo Meth., 9 lbs. @ 7d. lb.
„ Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
Linseed c. Oil, Crushed, 3 cwt. @ 19/- cwt.; 1 cwt. @ 20/- cwt.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 10½d. lb.
* „ Ammon. Aromat., 6 lbs. @ 9d. lb.
* „ Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
* „ Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* „ Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* „ Bismuth, P.B., 6 lbs. @ 1/5 lb.

Morphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 13/10 oz.; 16 oz. @ 14/1 oz.; 8 oz. @ 14/2 oz.; 1 oz. @ 14/9 oz.; Pur. Præcip. Bimeconate or Tart, 1 oz. @ 18/3 oz.
Morphinæ Diacetyl., 4 oz. @ 19/9 oz.; 1 oz. @ 20/- oz.; Hydrochlor., 6d. per oz. less.
Myrrh, Gum, English Ground, 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.

Naphthalene Candles or Balls, 1 cwt. @ 25/- cwt.; 56 lbs. @ 27/6 cwt.; 28 lbs. @ 29/6 cwt.
Nux Areca, 1 cwt. @ 75/- cwt.; 7 lbs. @ 9d. lb.; powder, English ground, @ 80/- cwt.; 7 lbs. @ 9½d. lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 2/11½ lb.
Ol. Anethi Ang. B.P., 1 lb. @ 15/6 lb.
Ol. Anisi, E.I., 66 lbs. @ 4/1 lb.; 16½ lbs. @ 4/6 lb.; 4½ lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
Ol. Camphor. Essent., White, 80 lbs. @ 80/- cwt.; 40 lbs. @ 85/- cwt.; Brown, 40 lbs. @ 120/- cwt.
Ol. Menth. Pip. English, 5 lbs. @ 35/6 lb.; 1 lb. at 36/6 lb.; Hotchkiss original bots., 21 oz. each @ 14/6 lb.; 6 bots. @ 14/2 lb.; 18 bots. @ 13/8 lb.; American, 20 lbs. @ 8/3 lb.; 4½ lbs. @ 8/11 lb.; 1 lb. @ 9/6 lb.; Japanese, 60 lbs. @ 3/6 lb.; 5 lbs. @ 4/- lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

STANDARD PRODUCTS
OF
INTERNATIONAL REPUTATION.

Ether
DUNCAN

Chloroform
DUNCAN

Ethyl
Chloride
DUNCAN

MANUFACTURED ONLY BY
DUNCAN, FLOCKHART & CO.
EDINBURGH & LONDON.

FINE CHEMICALS for Scientific purposes and for College and Technical Institute Laboratories.

PHARMACEUTICAL CHEMICALS of Standard Quality for Manufacturing and Dispensing.

PHOTOGRAPHIC CHEMICALS in bulk or ready Packed for Retailing.

RADIUM and RADIO-ACTIVE MINERALS.

MINERAL and GEOLOGICAL SPECIMENS and SETS.

TECHNICAL CHEMICALS for Glass, China, Enamel, Varnish, and other manufacturing purposes.

AGRICULTURAL CHEMICALS, Fertilizers, etc.

Contractors to H.M. Government.
Price Lists sent free on Application.

HARRINGTON BROS., LTD.,
Manufacturing Chemists,
4 OLIVER'S YARD, CITY ROAD,
Telephone No.: 10586 CENTRAL. **LONDON, E.C.** Telegraphic Address: 'SICCATIVE LONDON.'

MANUFACTURERS OF
VANILLIN
TERPINHYDRATE,
All kinds.
HELIOTROPINE, TERPINEOL, ISO-EUGENOL, THYMOL, OXIDISED TURPENTINE OIL, TERPINOL, Etc. Etc.

Distillers of
Oils, Clove, Pimento (Allspice)
Patchouli, Amyris, Santal E. I.

Verona Chemical Co.,
NORTH NEWARK, N.J., U.S.A.
Cable Address: Keystar Newark." ABC, 5th Edition.

Are You Ready

to supply "on demand" the undermentioned preparations which are being advertised to the Medical Profession and are certain to be in great request during the next few months.

TRUSTWORTHY SERUMS

Prepared under most rigid precautions by highly-qualified bacteriologists in Parke, Davis & Co.'s laboratories, which are officially inspected and licensed.

ANTIDIPHTHERIA SERUM

For use in the Prophylaxis or Treatment of diphtheria.

"STANDARD" POTENCY (400 antitoxin units per c.c.)—1000 units, 2/- ; 1500 units, 2/9; 2000 units, 3/6 ; 3000 units, 5/-

"SPECIAL" POTENCY (750 to 1000 units per c.c.)—2000 units, 7/- ; 3000 units, 8/10 ; 4000 units, 10/6 ; 5000 units, 13/10 ; 6000 units, 16/8.

ANTIMENINGITIC SERUM

For use in the Treatment of epidemic cerebro-spinal meningitis.

Bulbs containing 15 c.c., 9/6 per bulb.

ANTISTREPTOCOCCUS SERUM (Polyvalent).

For use in the Treatment of septic infections (erysipelas, cellulitis, etc.).

Bulbs containing 10 c.c., 4/7 per bulb, or 13/4 per box of three bulbs.

ANTITETANUS SERUM

For use in the Prophylaxis or Treatment of tetanus.

Bulbs containing 1500 units, 4/7 per bulb, or 13/4 per box of three bulbs.

BACTERIAL VACCINES

Prepared in the Laboratory of St. Mary's Hospital, London, W., under the supervision of the Director—Sir A. E. Wright, M.D., F.R.S., etc.

CHOLERA VACCINE for Preventive Inoculation.

MENINGOCOCCUS VACCINE for Preventive Inoculation.

For immunisation of individuals who have been exposed to infection from cerebro-spinal meningitis.

TYPHOID VACCINE for Preventive Inoculation.

TYPHOID - PARATYPHOID VACCINE for Preventive Inoculation

Each of the above-mentioned vaccines is supplied in sets of two bulbs (prophylactic treatment for one adult) at 5/6 per set; also in rubber-capped bottles of 25 c.c. (sufficient for 16 adults) at 27/9 per bottle.

ANTISEPSIS VACCINE (Streptococcus and Staphylococcus).

For prophylaxis or treatment of septic infection of wounds, burns, compound fractures, etc.

MENINGOCOCCUS VACCINE for Use in Treatment.

Employed in cases of epidemic cerebro-spinal meningitis.

"POLLACCINE" (Pollen Vaccine)

For prophylaxis or treatment of hay fever.

TYPHOID VACCINE for Use in Treatment.

The above-mentioned vaccines are supplied in bulbs of 1 c.c., at 2/9 per bulb ; and in rubber-capped bottles of 25 c.c., at 27/9 per bottle.

For Supplies of the above-mentioned please write, 'phone, or wire

PARKE, DAVIS & CO., 50-54 BEAK STREET, REGENT STREET, **LONDON, W.**

Telegraphic Address: "CASCARA LONDON." Telephone No.: REGENT 3260 (six lines).

Antimeningitis Serum Mulford

For the Treatment of Cerebrospinal Meningitis

The use of Antimeningitis Serum has been placed on a secure basis by the scientific work of Flexner and others at the Rockefeller Institute, and confirmed by extensive clinical observations. The mortality of the disease is reduced from the usual rate, between 70 and 90 per cent., to about 25 per cent. As with other curative serums, it is essential that Antimeningitis Serum be used early and in sufficiently large dosage. The serum must be introduced directly into the spinal canal, as absorption of fluids from the general circulation into the spinal canal is extremely slow, and it is essential that the serum in high concentration be brought in direct contact with the diplococcus if the best results are to be obtained.

Meningo-Bacterin Mulford

(Meningococcus Vaccine)

and

Meningo - Serobacterin Mulford

(Sensitised Meningococcus Vaccine)

For Immunisation Against Cerebrospinal Meningitis

In January, 1913, 68 cases of cerebrospinal meningitis with 44 deaths occurred in Dyer County, Tennessee. During the epidemic there was a total of 145 cases with 80 deaths.

Results of Immunisation with Meningo-Bacterin.—Over **10,000 persons were immunised with Meningo-Bacterin. No cases** of cerebrospinal meningitis were reported **among those receiving the full immunising treatment.**

H. K. MULFORD COMPANY, Philadelphia, U.S.A.

Manufacturing and Biological Chemists,

LONDON: 119 HIGH HOLBORN, W.C.

Distributing Agents: THOMAS CHRISTY & CO., Old Swan Lane, London, E.C.

Sphagnol

BRITISH MADE BRITISH OWNED

A Proved Healer of Skin Diseases and WOUNDS

Strongly recommended by Doctors

Sphagnol can cure the most acute forms of Eczema, Psoriasis, Acne, Herpes, Ulceration of the Ear, Blepharitis, Ringworm, Dandriff, Hæmorrhoids, and Pruritus

Sphagnol is an Antiseptic Preparation, easily applied, and can be borne by even the most sensitive parts. It has been tested for many years by medical men, and their reports leave no room to doubt its efficacy. Sphagnol Preparations consist of Soaps, including a very fine Shaving Soap, Suppositories, Ointment and Cream, which are put up in an attractive style. Sphagnol Medical, Toilet, and Shaving Soaps have been awarded the Certificate of the Institute of Hygiene for Purity, Quality and Merit

Chemists are cordially invited to write for Full Particulars and Free Samples

PEAT PRODUCTS (SPHAGNOL) LTD

19 Queenhithe, Upper Thames St., London, E.C

BOTTLES

:: YORKSHIRE MAKE ::

PRESENT LOWEST PRICES.

DISPENSING, as illustrated, Plain or Graduated.

1½ & 2 oz.	3 & 4 oz.	6 & 8 oz.	10 oz.	12 oz.
9/3	9/6	10/6	15/6	17/6

16 oz.	20 oz.
23/6	25/6 per gross.

GREEN PANELLED (three sides)

1/- per gross extra to above prices up to 8 oz., 2/- extra beyond.

GREEN PANELLED HEAVY (for Cough Mixtures)

2½ oz. 10/6; 5 oz. 12/6 per gross.

POISON. Oval Ribbed, Pale Green (for Ammonia)

3 & 4 oz.	6 & 8 oz.	10 oz.	12 oz.	16 oz.	20 oz.	
11/6	12/6	16/6	18/-	23/6	26/-	per gross.

VIALS and HEXAGON POISONS at proportionately low prices.

TERMS: NET CASH 7 DAYS. CRATES 1/6 EACH.

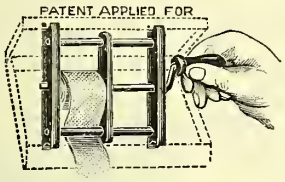
Carriage paid on 6 gross assorted crates up to 100 miles ex Leeds (small extra charge beyond that distance).

THOMAS SWALES,

24 BUTTS COURT, LEEDS.

MINIATURE BANDAGE WINDER

This improved Bandage Winder has the following advantages :



It is only 5½ in. square.
Owing to its construction a Clamp is unnecessary.
It can be used as illustrated between the lid of the ambulance box.

Price complete, each in box, **11/6** DOZEN

From **A. E. BRAID & CO.,** 30 Gower Place, London, W.C.

Wholesale only : **WAGNER BROS.,** 4/5 Stonecutter Street, London, E.C.

DISPENSING BOTTLES & PHIALS.

PRESENT PRICES.

CLEAR BLUE TINTED—Good Quality.

3 & 4	6 & 8	12	16 oz.	
10/-	**11/-**	**15/-**	**18/-** per gross.	Plain or graduated.

CLEAR BLUE TINTED—Best Quality. QUININE.

3 & 4	6 & 8	12	16 oz.
11/-	**12/-**	**20/-**	**24/-** per gross.

WHITE PHIALS—Good Quality.

½	1	1½	2 oz.	
4/6	**5/-**	**5/6**	**6/-** per gross.	Plain or teaspoons.

BLUE POISON AND LOTION BOTTLES. All sizes.

We send six gross assorted or otherwise, carriage paid within 7 miles, and to certain stations. Particulars on application. Smaller quantities not carriage paid.

I. ISAACS & CO.,
106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.
Or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.
Orders sent to either establishment have attention.
Established 100 Years.

ENOTS ENOTS ENOTS ENOTS ENOTS

CHEMISTS WHO SELL INSECTICIDES ARE MOST FAVOURABLY PLACED FOR SELLING SPRAYERS.

EVER-READY PNEUMATIC SPRAYER No. 2649

PRICE 15/- EACH (SUBJECT)

EVERY TRADE 'ENOTS' MARK SPRAYER

PLACED WITH A CUSTOMER IS A PERMANENT ADVERTISEMENT TO YOUR CREDIT.

WRITE FOR SHOWCARD AND NEW LIST, WHICH INCLUDES

SCENT AND BOTTLE SPRAYS.

TELEPHONE NO. 7442 CENTRAL PRIVATE BRANCH EXCHANGE — TELEGRAMS "ENOTS," BIRMINGHAM. — A.B.C. CODE USED

Benton and Stone Ltd.
"ENOTS" WORKS, BIRMINGHAM.

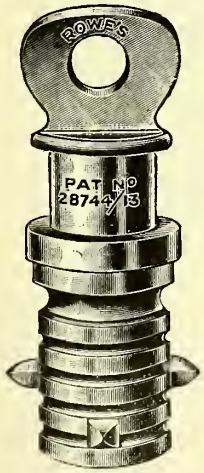
ENOTS ENOTS ENOTS ENOTS ENOTS

"A MOST GRATIFYING SUCCESS."—*India-Rubber Journal, 2/1/15.*

ROWE'S

Patent Hot Water Bottle Stoppers.

Patent No. 28744/13.



SUPPLIED TO THE WAR OFFICE.

Indiarubber Hot Water Bottles fitted with these Patent Stoppers have, during the past winter, been sold by over 5,000 Chemists, and have given entire satisfaction.

Obtainable through every wholesale house in Great Britain and Ireland.

ADVANTAGES :—

Stopper Sockets can never become loose. Bottles cannot leak around the stopper. No unsightly wiring-on of stopper. Stopper Socket firmly embedded and anchored in the neck of hot water bottle. Stoppers fitted right down at the bottom of the funnel. No scalding water left in funnel after filling.

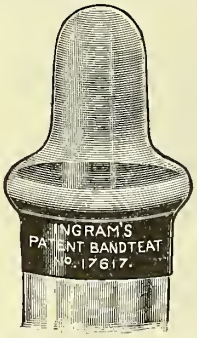
NO EXTRA COST. NO MORE LEAKY BOTTLES.

Sample Stopper Socket sent Post Free.

T. WILFRID ROWE, 52 HAROLD ROAD, LEYTONSTONE, LONDON, N.E.

PROFITABLE ENGLISH MADE GOODS.

INGRAM'S



BLACK OR TRANSPARENT
2/3 per doz. net
or
24/- per gross net.
(for orders of 3 doz. and over).
Retail price **3d.** each

"Agrippa"

PATENT No 17617

BAND TEAT AND VALVE.

GRIP TIGHTLY TO THE BOTTLE AND WILL NOT SLIP OFF.

STERILIZABLE BY BOILING.
PERFECTLY HYGIENIC.

If your Wholesaler cannot supply, please write us :—

BLACK OR TRANSPARENT
1/9 per doz. net
or
18/9 per gross net.
(for orders of 3 doz. and over).
Retail price **2½d.** each.

Patentees and Manufacturers: J. G. INGRAM & SON, Hackney Wick, LONDON, N.E.

THE "SANOID"

BATH AND FLESH GLOVES.

Made on our Premises.

"LOOFAH."

"TURCO."

"FANCY."

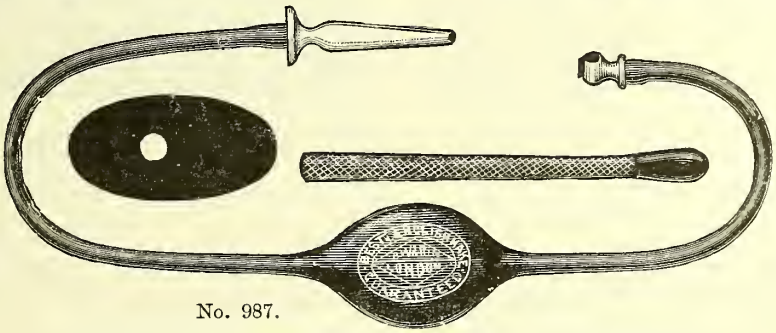
	Per doz. pairs.
Loofah both sides	8/6
" " turco bound ...	10/6
" and turco	7/-
" and fancy turco	7/6
" and calefacio	7/6

	Per doz. pairs.
Turco white, thin	2/3
" " thick	3/3
" " extra thick	5/-
Fancy striped blue and red squares, two patterns	3/9
" blue and red diagonal squares	4/-

CUXSON, GERRARD & CO., Ltd., OLDBURY.

SEAMLESS ENEMAS.

BRITISH MAKE.



BRITISH MAKE.

No. 987.

GUARANTEED FOR 2 YEARS.

		s.	d.
No. 987.—The "**B.E.M.**" (best English make) with bone rectal pipe, etc., complete in superior card box	per doz.	18	0
,, ,, in leatherette dome-top case	,,	20	0
,, ,, super quality	,,	24	0
,, extra large and stout, the finest article made ...	,,	32	0
No. 275.—Warne's pulse valve, black polished, complete in case	,,	34	0
,, arabesque rubber ,, ...	,,	36	0
,, larger and stouter ,, ...	,,	39	0

5% discount allowed for prompt cash off above prices. Carriage paid on Orders of £2 and upwards to any town in the United Kingdom.

We are the right House for BRITISH-MADE GOODS—Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

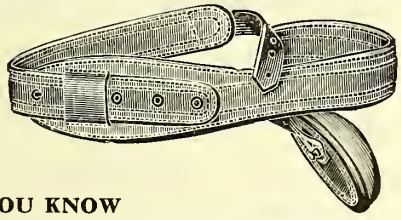
BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

The "Hernicura."

"COMFORTABLE."

Reg. No. 627975 (1913). Patent No. 23241 (1913).



YOU KNOW
how often you have trouble in fitting customers with trusses, and how frequently dissatisfaction is expressed.

TRY
the "Hernicura" Trusses. They are easy to fit, possess great adaptability, give absolute satisfaction, and yet are most reasonable in price.

A 33-inch Truss will adjust from 30 to 36 inches. Head is also adjustable.

All orders executed by return, including Specials and Re-covers.

Write for Price List. *Specimens on Appro.*

JOHN MORGAN DAVIS & SONS,
TRUSS & SURGICAL APPLIANCE MAKERS,
278 BISHOPSGATE, E.C.

ROBT. BAILEY & SON,

Clegg Hall Mill,

Telephone: 114 LITTLEBOROUGH.
Telegrams: BAILEYS, SMITHY BRIDGE.

SMITHY BRIDGE, LANCS — Eng.

MANUFACTURERS OF

SURGICAL DRESSINGS
ABSORBENT GAUZE TISSUE,
COTTON WOOL, BANDAGES,
LINT, TOW, &c.

PATENT FOUR-PLY GAUZE.

BRITISH MADE AND BRITISH OWNED.

WHOLESALE ONLY. Write for Samples and Prices.

LONDON REPRESENTATIVES:
OGILVY & CO., 18 Bloomsbury Sq., W.C.
Telephone: GERRARD 1674.
Telegrams: MICROTOME, WESTCENT, LONDON.

FREDK. FINK & CO.,
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK.
Lightest and Whitest, also Purest Dense.
APPLY TO
AUG. LEVERMORE & CO. Ltd., 8-10 Gt. St. Helens, LONDON, E.C.
Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

DISINFECTANTS
OF ALL KINDS
Cheapest Makers of Co-efficient Acids and Fluids.
HENRY ELLISON, LTD., CLECKHEATON, YORKS

Baines' Dielectric & Baines' Dielectric Emulsion
The newly discovered Dielectric Treatment for LOCAL PYREXIA in its various forms, including Pneumonia, Appendicitis, Neuritis, Rheumatoid Arthritis, etc. The greatest medical discovery of a century. All danger to life removed within a single hour in Pneumonia, Appendicitis, &c. This remedy is unequalled for rapidity of action in all forms of Local Pyrexia. Sold to the Medical Profession and Drug Trade only by **DEIONS, LTD., 220 Tower Bridge Road, London.** 'Phone: Hop 335. Telegrams: "Deionisers, Berm, London."

JOHN E. RAWORTH,
CHARTERED PATENT AGENT.
PATENTS, TRADE MARKS AND DESIGNS.
THE OLD MANSION HOUSE, 73 Cheapside, E.C. and QUEEN ANNE'S CHAMBERS, WESTMINSTER, S.W.

E. CRAWSHAW & CO.,
56 Great Dover Street, S.E.
ANILINE DYE MERCHANTS,
are still selling their well-known Aniline Dyes to retail in Penny Packets.
Telephone: Hop 4992. Teleg. Address: "Cachous London."

Dentistry
FOR CHEMISTS & DENTISTS
Write for Price List
A.G.FENTIMAN
190, BISHOPSGATE, LONDON, E.C.

S.V.M. WINES FOR CHEMISTS. S.V.R.
A. MACNAIR & Co Dolphin Distillery, Ardwick, MANCHESTER

First-Class Mechanical Dentistry.
Reliable workmanship. Popular Prices. Moderate charges for Gold. D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M. Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a speciality. Special cheap rates for showcase pieces. 18 years' experience of first-class mechanical dentistry.
E. C. HALDER, 46 New Cross Road, LONDON, S.E.
'Phone, New Cross 1555.

Van Horn and Sawtell
—LONDON AND NEW YORK— MAKERS OF
"K-Y" LUBRICATING JELLY
IN COLLAPSIBLE TUBES AND OF
"Van Horn" Sterile Sutures and Ligatures
IN GLASS TUBES — PRICES ON APPLICATION
81-83 HIGH HOLBORN, W.C.

CACHETS "FINOT"
(White or Coloured),
With inscriptions in any desired tint; also Plain or Embossed.
"Beautifully made, and the inscriptions give them a distinction all their own."—*C. & D.*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia, and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In Ten Sizes. Also supplied to fit existing machines.

Send for Trade Price List of
MECHANICAL DENTISTRY
TO
TEMPLAR MALINS, LTD.,
51 Queen Street, CARDIFF.

HOT WATER BOTTLES.
BEST ENGLISH MAKE.
Before placing your season's order for Hot Water Bottles please write for quotation to
The GALEN MANFG. CO., Ltd., Wilson St., New Cross, London, S.E.

Precipitated Chalk, Hyposulphite of Soda, Sulphite of Soda, Glauber Salts, Epsom Salts, Salts of Tartar, Alum, Sulphite of Lime, Sulphide of Sodium.
E. BRAMWELL & SON, Ltd., ST. HELENS, LANC.

BUNCHER & HASELER, LTD.
ALUMINIUM BOXES
Branston St.,
BIRMINGHAM, ENGLAND.

TOBACCOS! CIGARS! CIGARETTES!
Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied. Opening orders a Speciality. Send for Price List.
SINGLETON & COLE, Ltd., Cannon Street, BIRMINGHAM, AND BRANCHES.

RUBBER GOODS

(For ALL KINDS of SURGICAL)

Try JAMES TOMPKINS, LTD.,
Rubber Manufacturers, **386 CITY RD., LONDON.**
ESTABLISHED 1877.

ALEXANDRE'S
SHADEINE
FOR COLOURING GREY HAIR.
This popular article is largely advertised and stocked by all Wholesale Houses.
TRIAL BOTTLES 6d. size, supplied on pretty showcards.
4/- per doz.; 3/6 size, 28/- per doz.
58 WESTBOURNE GROVE, LONDON, W.

DENTISTRY FOR DENTISTS

By A. J. FENTIMAN, Dentist (Fentiman & Co.)
Practical Dentists in Gold, D.A., Tubes, Crowns, Gum Sections, Vulcanite, Celluloid, Strengthened Rubber, Reg. Cases (Angles'), Obturators, &c.
Telephone: 9977 London Wall. Telegrams: "Lullingly London."
Postal—East Smithfield, Tower Bridge. Established 1835.
NO OTHER ADDRESS.

Zepto *advertised 9d. P.A.T.A. 7½d. 4/6 dozen.*
WOULD you like a show that incurred no risk and sold this line NOW? Thats the interesting proposition we should like to tell you about if we may.
CHRISTYS, OLD SWAN LANE, E.C.

Tel. Address: "Pillischer London." ***Established 1843.*** **Telephone: 4418 Gerrard.**

J. PILLISCHER, 88 NEW BOND STREET, LONDON, W.

MANUFACTURER OF SCIENTIFIC INSTRUMENTS AND
SOLE MANUFACTURER OF THE CELEBRATED "INALTERABLE" CLINICAL THERMOMETER.
RECENT EXHIBITIONS: 12 GOLD MEDALS—14 GRANDS PRIX.
GAND, 1913, GRAND PRIX; GAND, 1913, HORS CONCOURS.
(French Section) (British Section)

TIDMAN'S SEA SALT.

ON P.A.T.A. LIST. INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.
Orders of Twenty Shillings value and upwards Carriage Paid—Cases Free, less 2½% Discount for Cash.

	Advertised Price. Per Box.	Minimum Retail Price. Per Box.	Minimum Wholesale Price. Per Gross.
1d. Packets	1/- ... 12 in box	11d. ...	8/6
2d. ,,	2/- ... ,,	1/10 ...	16/9
1d. linen Bags	1/- ... ,,	11d. ...	8/6
2d. ,, ,,	1/- ... 6 in box	11d. ...	16/9
Boxes, about 1¾lb.	4d. ...	3½d. ...	2/10 pr. doz.
,, ,, 3½ ,,	8d. ...	7d. ...	5/8 ,,
,, ,, 7 ,,	1/2 ...	1/- ...	10/- ,,
,, ,, 14 ,,	2/- ...	1/10 ...	18/3 ,,

SINGLE BAGS of following 3 sizes sent CARRIAGE PAID to any place in the United Kingdom, so that there is no Stock to hold.

	Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
28-lb. Bags (or Boxes)	3/- each	... 3/-	... 2/6 each
½-cwt. Bags	5/6 ,,	... 5/6	... 4/7 ,,
1-cwt. Bags	10/- ,,	... 10/-	... 8/4 ,,

The following are also sent, carriage paid, cases free, to any place in the United Kingdom, for net cash: 4—7 lbs. Boxes, 3/6 the lot; 6—7 lbs. Boxes and upwards at 10/- per dozen (list price). Orders for assorted sizes to the value of 7/6 and upwards.

TIDMAN'S SEA SOAP, beautifully perfumed.

	Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
Box of 3 large Tabs.	1/- each ...	10½d. ...	7/6 per doz. boxes
,, 6 small Tabs.	6d. ,, ...	5d. ...	3/9 ,, ,,
Bars about ½-lb.	5d. ,, ...	4d. ...	3/- per doz. bars.
,, ,, 1-lb.	10d. ,, ...	8d. ...	6/- ,, ,,

Accounts Monthly Net due 10th of following month. Terms for Seidlitz Powders, Pinnacle Soap Stands, Toilet Soaps, &c., sent on application.

TIDMAN & SON, Ltd., Wapping, London, E.

Expurgo Anti-Diabetes

The only reliable and thoroughly satisfactory Remedy for Diabetes-Mellitus which has a record of complete cures.

REPORT FROM A PROMINENT PHYSICIAN.

I am satisfied your preparation has cured several of my patients. Expurgo Anti-Diabetes is particularly effective in combating and neutralising the diabetic poisons and in completely eliminating the sugar excretion characteristic of this disease.

The Medical Faculty is also recommended to try Expurgo Lapis—a particularly valuable preparation in the treatment of Gall Stones, Kidney and Bladder Stones and Gravel.

Expurgo Anti-Diabetes, per bottle 8/-, less 25%
Expurgo Lapis - per bottle 6/-, less 25%
Carriage paid on orders of 1 dozen.

THE EXPURGO MANUFACTURING CO.,
815 North Clark Street, CHICAGO, ILL., U.S.A.
Distributing Agents: Rocke, Tompsitt & Co.,
4 Redcross Street, London, E.C.

By Royal Warrant

To H.M. King George V.

To H.M. Queen Alexandra.

HOLDERS OF ROYAL WARRANTS DURING THREE SUCCESSIVE REIGNS.

Jeyes' Disinfectants

JEYES' FLUID, JEYES' POWDER,
JEYES' CYLLIN, CYLLIN MEDICAL,
CYLLIN MEDICAL CAPSULES (Palatinoids),

Jeysol

Identical in composition with Lysol, of absolutely equal efficiency, and making a clear solution.

Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, E.C.

"RODINE" EVIDENCE

No. 2.

RESULTS.

Mr. Tomalin, Head Gardener to the Earl of Bessborough, Piltown, co. Kilkenny, writes:—"The last tin of 'Rodine' I got from you was most effective; we found dead rats in all directions after using it, with the added advantage that they die above ground and can be buried, thus obviating the smell. 'Rodine' is the best rat exterminator I know, and never fails to give good results."

Mr. Reith, Chemist, Cults, writes:—"I back 'Rodine' against all comers. Virus included, as it gives to the **seller** and user the best visible results."

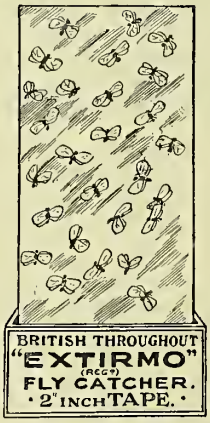
NOTE.—See last week's issue for No. 1 of this strong chain of evidence in the case for "RODINE."

Result to Agent—5½d. Profit on every 1/- tin.

HARLEY, Manufacturing Chemist, **PERTH, Scotland.**

Export Agents:

TOZER, KEMSLEY & FISHER, LTD.
84 FENCHURCH STREET, LONDON, E.C.



Before Buying

your

FLY CATCHERS

this Season, see the

"EXTIRMO"

Registered, and Patent applied for.

British-made throughout.

Embraces all the good qualities of other Catchers and eliminates the bad, adding improvements.

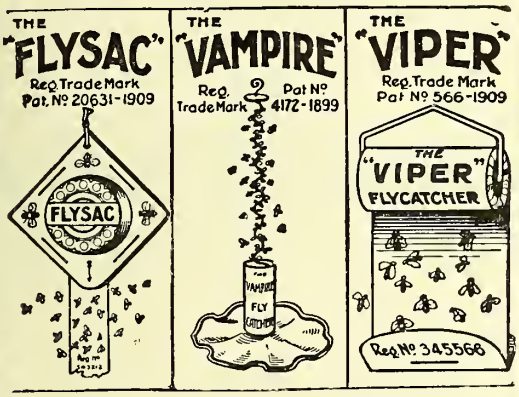
Advantages:

Contained in wooden boxes, wrapped in greaseproof paper.
The Catcher is weighted at the bottom which prevents it being blown about against curtains, &c.
The interior is obscured from view, and the fingers are not soiled when tape is pulled out.
A drawing-pin is enclosed with each, so that Catcher can be hung from the ceiling, &c. &c.

Full particulars, prices, &c., from the sole Wholesale Agents for the "Extirmo" Fly Catchers.

SHIRLEY BROTHERS, Ltd., Whitecross Works, LONDON - S.E.

REAL FLYCATCHERS!



The above Flycatchers are of proved effectiveness. They are neat, clean, and easy to handle. Stock well and sell well and readily repeat. Only the finest materials are used in their construction.

"COME TO STICK!"

These goods are no experiment, but the outcome of over 30 years' experience in the manufacture of Birdlimes and Fly Gums.

KAY BROTHERS Ltd., STOCKPORT.

Telegrams: "KAY STOCKPORT." Nat. Tel. 247. (2)

CHRISTY STRONG'S

"COBWEB" AND "GRIP" FLY PAPERS

Per Gross **5/6** Carriage Paid.

Postal Address:

115 CHATHAM STREET, READING.

Telegraphic Address: "STRONG READING."

TANGLEFOOT SEALED STICKY FLY PAPER.

SIR JAMES CRICHTON-BROWNE, in his Presidential speech at the Annual Conference of the Sanitary Inspectors' Association on August 6th, said: "The Fly-plague in South Africa was markedly diminished wherever punctilious care in the prompt removal of all refuse from the vicinity of the camp was combined with a liberal use of

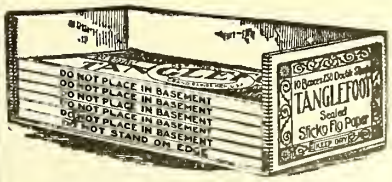
TANGLEFOOT FLY PAPER."

The Times, August 9, 1902.

ALABASTINE CO. BRITISH, LIMITED, CHURCH STREET, SOUTH LAMBETH, LONDON, S.W.

ALSO OF

All Chemists' Sundriesmen.



Parcel Post, packed, 150 Sheets, 5/-

Per case of 500 Sheets, 15/-

NEW SIZE TANGLEFOOT, 10/6 per case of 400 Sheets.

TANGLEFOOT is specially adapted for hot Climates, and is sold throughout the world.

GOLD MEDAL AND DIPLOMA, PARIS, 1900.

J. F. Macfarlan & Co.

EDINBURGH AND LONDON.

MANUFACTURERS OF

MORPHIA AND ITS SALTS.
CODEIA AND ITS SALTS.

ALL OTHER **OPIUM** PRODUCTS, AND ALL
:: ITS SYNTHETIC DERIVATIVES. ::

Apomorphine Muriate.	Euonymin.	Narcotine.	Veratrine.
Cotarnine.	Emetine.	Salicin.	Spirituous
Chrysarobin.	Gingerine.	Strychnine.	Galenicals in Bond.

Macfarlan's Pure Chloroform.

A definite Chemical Compound, answering British Pharmacopœia and all other Official Tests. The purity and excellence of Chloroform do not depend on the **sources of its preparation,** but on the **skill and care with which it is prepared.**
Is extensively used in the principal Hospitals and Infirmaries.

"Comparing 'pure,' 'Methylated,' and other Chloroforms, no evidence is afforded of any kind being safer than another."—BRIT. MED. ASSOC., Report of the Anæsthetics Committee, July 1900.

Macfarlan's Anaesthetic Ether.

(As used by the late Dr. THOMAS KEITH.)

After long trial, both in Hospital and in Private Surgical Practice, our Anæsthetic Ether has acquired special preference and repute, and is guaranteed to be unsurpassed in quality by any other made from whatever source.

MACFARLAN'S ANTISEPTIC DRESSINGS AND APPLIANCES.

Prepared from the Special Formulæ of the late LORD LISTER, and guaranteed to contain full percentage of antiseptic substance. Since their introduction in 1871 these Dressings have continued to merit the confidence and approval of the Profession.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, MAY 8, 1915

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

That is what advertisers in The Chemist and Druggist Supplement secure. Not indefinite returns from spasmodic and inflated circulation, but regular, steady success—the best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—SURREY (First-class Residential Locality).—Attractive Shop, beautifully situated; returns, present rate, £2,000; *net profit* 25 *per cent.*; terms, goodwill £125, stock and fixtures at valuation.

2.—MIDDLESEX (Within easy Distance of Town).—Good-class Retail and Dispensing Business, situate in rapidly rising locality; returns over £1,500 at fair prices; vendor, being desirous of effecting an early transfer, is disposed to deal liberally with a purchaser.

3.—LONDON, S.W. (Favourite Residential Suburb).—Good-class Retail and Dispensing Business; returns about £1,300; *net profit* 25 *per cent.*; well-fitted shop and good stock; terms, goodwill £200, stock and fixtures by valuation; full investigation invited.

4.—LONDON, S.W. (Main Thoroughfare).—Ready-money Business; returns £1,000; very profitable; vendor is relinquishing on account of illness; terms, valuation of stock and fixtures; excellent opportunity for a pushing, energetic man.

5.—ESSEX.—Ready-money Business; no near opposition; returns over £700; *net profit* £230; easily increased; expenses nominal; full particulars on application; about £260 required, or reasonable offer.

6.—WITHIN EASY DISTANCE OF CITY.—Modern Pharmacy; returns between £1,700 and £1,800; chiefly ready money; large shop and good working stock; price about £1,000.

7.—EASTERN COUNTY (Main Line of Rail).—Partnership, with view to succession; returns between £2,100 and £2,200; *gross profit about* £1,000; intending investors with £500 at command will find this a sound investment.

8.—HANTS (Health Resort).—Old-established Business, essentially Dispensing and good-class Retail; returns about £2,500; the shop is handsomely fitted, and is situated in one of the principal streets; price, valuation of stock and fixtures; illness cause of sale.

9.—KENT.—Unopposed Country Retail, Dispensing, and Agricultural Business; steadily increasing returns, now about £600, yielding £212 *net profit*; roomy house, with garden and grass land; nearest opposition 5 miles; price £350.

10.—SOUTH COAST (Rising Health Resort).—Returns, present rate, over £900; modern trading; *very good profits, about* 40 *per cent.*; scope for extension under qualified management; convenient house; price about £365.

11.—GLOUCESTERSHIRE.—Sacrifice for immediate sale; General Retail with Wines and Grocery; returns £50 per week at fair prices; roomy house, with good garden; rent £40; no opposition; price about £850.

12.—WESTERN COUNTY (Main Line of Rail).—Good-class Business, Family, Retail, and Dispensing; established many years; returns, last year, about £1,300; well-fitted shop, capitally situated; rent £55; to effect a speedy transfer some sacrifice would be made.

13.—DEVONSHIRE.—Light Retail and Dispensing Business, well situate in one of the principal streets; returns £500 at good profits; full investigation permitted; commodious residence; terms, valuation of stock and fixtures.

14.—NORTHUMBERLAND.—Retail and Dispensing Business, with Photographic Sundries; returns under management £1,200; *profit* £500; very little booking; price £875.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS.

NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,400 returns.—YORKSHIRE (Health Resort, Inland).—First-class Retail; fine shop; good house; net profit £300; price £1,300.

£900 returns (just under).—LONDON, N.—Good-class Light Retail with fine opening for Optics and Dentistry; good corner position; desirable residence; price £450.

£400 returns.—MANCHESTER (Suburb).—Nice class Retail in pleasant locality; illness cause of sale; bargain £150.

£1,200 returns.—LANCS.—Good-class Retail, with fair Dispensing and Family trade; net profit £300; price £500.

£550 returns.—LONDON, W.C.—Well-fitted, double-fronted shop; nice house; good class; good opening for Photo and Optics; delightful district; valuation about £350.

£600 returns.—SALOP.—Good-class Retail, with ample scope for Agricultural; price £500.

£1,300 returns.—YORKSHIRE.—Suburb of large town; Dispensing and high-class Retail; price £900, or valuation of stock and fixtures.

We have cash Buyers for businesses from £500 to £5,000.

Valuations conducted upon the shortest notice at moderate fees.

PARSON C. BAKER

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N.

50 years' experience in every branch of business.

Recommended by— BRITISH DRUG HOUSES, LTD. MEGGESON & CO., LTD. BARCLAY & SON, LTD.

Tel. No. Finchley 812.

All correspondence should be addressed as above.

And at 174 VICTORIA ST., S.W., Ph.C. Tel. No. Victoria 87.

UNOPPOSED Business, large village, Kent; population 2,000, and populous district; nearest Chemist 5 miles; opened 3 years; net profit, increasing about £80 annually, now £212; well fitted mahogany and plate-glass shop; good house and three-quarter acre of grass and garden; private entrance; 7 rooms, kitchen, bath, and offices; garage and outbuildings; rent £40; price asked £350; vendor retiring.

DEATH VACANCY.—Modern, well-fitted shop and good house; best position centre residential and visitors, East Coast; healthy, rapidly increasing town; no near opposition; close to Station and Hotels; neglected from ill-health; sure competence for business man; value of stock and fixtures, under £300, no goodwill; part purchase can remain.

SOUTH WALES.—Returning £2,300; Gilbey's Agency £850, N.H.I. £150; vendor entering medical profession; price £1,000, or offer near value of stock and fixtures, no goodwill.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BERDOE & FISH,

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—WEST MIDDLESEX.—Good-class, in best position; returns £1,510; good profits; handsome modern Pharmacy; price for goodwill and fixtures £450; stock at valuation.

2.—SURREY.—High-class Retail, in good residential district; returns over £1,000; net profit £280; modern, double-fronted Pharmacy, well fitted and stocked; price £575.

3.—HOME COUNTY.—Old-established Business, in market town; returns £1,300; net profit £400; large premises; price £800.

4.—NORTH WALES (Seaside).—Death vacancy; good-class Business, in prominent corner position; returns £550 to £650; scope for increase; low rent; price only £200.

5.—SOMERSET (Thriving Market Town).—Good Family Retail and Agricultural; returns £1,100; low rent; excellent house; modern Pharmacy; price £600; £400 can remain.

6.—SUSSEX COAST.—Unopposed; returns over £800; net profit £250; central position; good house; price £500.

7.—KENT COAST.—Good-class Retail, in commanding position; returns about £1,200; low rent; price £550, or offer.

8.—SOUTH WALES.—Cash Retail; returns £1,236; net profit averages £350; good position; price £600: part can remain.

9.—KENT (40 Miles out). — Unopposed Light Retail; easily worked; returns about £600; modern house; price £350.

10.—YORKS.—Cash Retail; returns about £500 under manager; net profit £185; rent £20; price £175.

11.—LONDON, S.W. — Good residential suburb; returns over £1,200; net profit £300; fine position; price £750.

12.—LONDON SUBURBS.—We have a large selection of Businesses on our registers; prices from £150 to £1,500; please state requirements.

STOCKTAKINGS.

We undertake stocktakings on a very low scale of commission or an agreed fixed fee, and also price out Chemists' own stocktakings. Please apply for our terms.

Businesses Wanted. Buyers Waiting.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BRADFORD.—Splendid opening for a Business, in main thoroughfare, qualified Chemist, for Sale, owing to owner's illness. Write, 1A Ellercroft Road, Bradford.

LONDON Suburb.—Old-established Business; several valuable Proprietaries; valuation of stock £350; valuation of fixtures £350; electric light; long lease; spacious double-fronted Pharmacy, mirror-backed shelves, mahogany fixtures; open to reasonable offer for a quick sale. Apply, "Demmere" (85/58), Office of this Paper.

LONDON, E.—£200 or a reasonable offer will buy Retail Drug Stores, established many years, doing, under unqualified supervision, over £15 per week at good profits; nice shop and house; well stocked; mahogany fittings; large window; lease; rent £50 and rates. Apply, "Radix" (69/36), Office of this Paper.

LONDON, N.—Lock-up Pharmacy, well fitted and stocked; opened last year; situated in high-class residential district, rapidly growing; plenty of scope for increase; no opposition; suit beginner; reason for disposal, management trouble; price about £450 cash, cost of stock and fixtures; rent £25 inclusive; 7 years' lease renewable. 69/14, Office of this Paper.

LONDON, N.W.—Herbal Drug Stores for Sale; established 10 years, same proprietor; good opening for Optics, Dentistry, and N.H.I.; low rental of £45; no near opposition; returns about £7 weekly; could be increased by Chemist; stock and fixtures at valuation, about £150. "F. B." (66/26), Office of this Paper.

MIDLANDS.—Excellent opportunity occurs of acquiring genuine old-established Light Retail and Dispensing Business, in harming locality; showing net profit £160; ample scope for increase, especially if run on modern Store lines; price £250 or offer, considerably below value of stock and fixtures. "Henry" 57/11), Office of this Paper.

PORTLAND.—Sound Retail and Prescribing; large trade with Fleet; well fitted (Maw's) and stocked; good house (part rent off); comfortable business; easily worked; net profit £200 or more; easily increased; good reasons for disposal. "Bizfleet" 53/20), Office of this Paper.

WHITEFIELD (Manchester).—Compact Drug Store, in main street; corner shop; residential neighbourhood; illness cause sale; will accept valuation stock and fixtures; good living accommodation. Apply, J. Taylor, Ainsworth Road, Radcliffe.

YORKSHIRE.—Drug Stores in thriving West Riding village; population 3,000; no opposition; nearest Chemist 3 miles, resident Doctor and 2 visiting Doctors; splendid opportunity for young qualified Chemist; good scope for N.H.I. work; price £120, or at valuation. Further particulars apply, Louis Jones, 8 Sunbridge Road, Bradford.

YORKSHIRE Manufacturing Town.—Old-established Business; in two hands only; founder retired and advertiser retiring; fixed business; turnover £1,500, with profits much above average; been left largely to unqualified management, and could be much improved; premises belong to advertiser, and town will be first to reap after-war benefits. 66/36, Office of this Paper.

YORKSHIRE (North-East Coast).—Old-established Business for valuation of stock and fixtures; well fitted; no agents. 63/8, Office of this Paper.

AN old-established Drug Business, Birmingham district; excellent position; corner shop; good premises; rent £28; breakown in health compels immediate sale; returns £350; stock and fixtures £160; good opening for N.H.I. in hands of a good qualified man; would be a profitable investment. Apply, Smart, Accountant, Peckingham Street, Halesowen, Worcester.

ANYONE wanting a Business cheap? pleasant London suburb; returns £11; not on panel; plenty of scope for big increase; family trade; nice house; low rent; best offer by end of May accepted; don't write for particulars, send for address and come and see it; a genuine opportunity. 65/26, Office of this Paper.

BRANCH for Immediate Disposal.—An old-established Business in busy thoroughfare; increasing and capable of doing extensive business; price about £250, or valuation of stock and fixtures; everything in splendid condition; fixtures alone worth money. Apply, "Chem.," 68 Holme Lane, Sheffield.

ESTABLISHED Business for Sale on valuation of stock and fixtures; prospective opening for young M.P.S. who is desirous of a future central position; no opposition; beautifully situated; only cash buyers need apply. Write, L. Middleton, Kensington, Sheffield, W.

FOR Disposal, Stock, Fixtures, and Goodwill of old-established Dispensing and Photographic business, situate in main thoroughfare of populous and fashionable district, at moderate valuation price to effect immediate sale; owner retiring; in same hands 35 years. Apply, Hopwood & Son, 17 Hill Street, Richmond, Surrey.

FOR Sale, Light Retail; returns £600 under unqualified; excellent profits; situated in the centre of a large colliery district; splendid opening for N.H.I. Dispensing; nearest opposition 1½ miles; small dwelling accommodation behind the shop; rent £26; price £170, or valuation; trial given. Bryn Drug Stores, 272 Wigan Road, Bryn, near Wigan.

GOOD Chemist and Druggist's Business for Sale in West Hartlepool, in medium and working-class district; present owner been in the business 25 years; reason of disposal, old age; good house attached to the shop, the property being the owner's; property and business to be sold for about £900, or at valuation. For particulars apply, Rawson, Luton Road, Harpenden, Herts.

HIGH-CLASS Pharmacy, 30 miles from London, for immediate Disposal; takings over £20 per week; modern house attached; every investigation; no reasonable offer refused. Write, 69/1, Office of this Paper.

OLD-ESTABLISHED Country Business in South of England for Disposal by owner, who is retiring; modern Pharmacy; two premises, including excellent house, all held on long lease at low rental; best position; turnover between £3,000 and £4,000 at good profits; price £1,500, or a valuation of stock and fixtures, goodwill and lease; trial allowed before purchase. "X. Y. Z." (65/34), Office of this Paper.

TO WHOLESALE CHEMISTS, DRUGGISTS, DRY-SALTERS, AND OTHERS.

To be Disposed of by Tender, the Business as carried on at Belper, near Derby, as a going concern by Messrs. W. P. Adshead & Co., Ltd., including the whole of the valuable Stock-in-Trade, Book Debts, Freehold Premises, Fixtures, Goodwill, and the Receiver's Interest in certain Contracts.

The Business has been established over 50 years, and enjoys a well-earned reputation for the excellence of its Proprietary Articles, Derby Furniture Cream, etc.

For further particulars and to view apply to Mr. R. E. Clark, 17 Albion Street, Hanley, Chartered Accountant, to whom Tenders for the whole, or for the Goodwill, Book Debts, Stock-in-Trade, Fixtures, and uncompleted Contracts should be delivered on or before 4 o'clock p.m. on the 10th May prox.

Neither the highest nor any Tender will necessarily be accepted.

SEASIDE.—Business in main thoroughfare of rising and popular resort; Light, Family, and N.H.I. trade; good prices obtained; double-fronted Shop, newly fitted; scope for development; exceptional opportunity for a beginner; sound reasons for disposing; will bear every investigation; total capital required, about £260. Apply, "Statim," 149 Balby Road, Doncaster.

TO Business Men with Small Capital, £150 to £300.—Choice of three excellent Businesses with net profit £250; good Houses, modern Shops, 20, 30, and 100 miles out; no goodwills and part capital can remain. Solicitor, 1 Mountfield Road, Church End, N.

VILLAGE Business in Surrey; owner enlisting; certain comfortable net profit (£150) for elderly Chemist, or capable of great increase by energetic man; established 100 years; price £300. 63/22, Office of this Paper.

WEST OF ENGLAND.—Exceptional opportunity for smart pushing man with limited capital; good Family Retail and Agricultural Business in growing market town; charming locality; returns £1,100, practically all cash; smart Pharmacy, heavily stocked; low rent; price £600; will allow £400 to remain to a good man well up in Agricultural lines. Apply "Cupri" (69/28), Office of this Paper.

£120 will secure a small genuine Business on Lancashire Coast; returns £12 to £13 a week at good prices; house and shop together rented at £25 a year, with £7 rates in addition; house could be let off easily at 6*s.* or 7*s.* a week; nicely stocked; stock alone worth purchase price; suit registered or non-registered man. Full particulars to 63/24, Office of this Paper.

£250 or nearest.—For immediate Disposal, owing to ill-health of proprietor, Cash Retail in working-class neighbourhood, West London; returns £10 to £12 weekly; exceptionally good profits; much scope for increase; 2,500 N.H.P. annually; genuine concern, established 11 years; same proprietor; books properly kept; every investigation; full particulars to bona-fide buyers. 69/12, Office of this Paper.

TO LET.

CHESTER-LE-STREET, Co. Durham.—First-class Shop to Let in main thoroughfare, adjacent to the termini of six 'bus routes; splendid opening. Apply to A. H. Fennell, Architect, Chester-le-Street.

SHOPS ONLY £20 TO £50 AND

SHOPS, convenient, compact, new premises, and no other Chemists near: Westcliff, Shop, 6 rooms, rent £60; Leigh, 4 rooms, £45; Southend, small, 4 rooms, £35. L. A. R., 8 San Remo Parade, Westcliff-on-Sea.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CANADIAN Sales Agent is open to Represent or Manage Branch for high-grade line of Soaps, Perfumery, Toilet Articles, or Proprietary Medicines in Canada; highest trade, financial and personal references; will guarantee to reorganise and increase any present business or to organise new one. Apply, 60/16, Office of this Paper.

FOR SALE.

MUST Sell at once, Total-adding National Cash Register; keys ¼d. to £1; seen by appointment. Write, C. H., 66 Packington Street, Essex Road, N.

PRELIMINARY.—81 Alexandra Road, Moss Side, Manchester.—H. Thompson has received instructions to Sell by Auction, as above, on Tuesday, May 11, 1915, and following days (unless previously disposed of by private treaty), the valuable Fixtures, Fittings, Trade Utensils, and Stock of a Chemist. Auctioneer's Offices, 11 Queen Street, Manchester.

PARTNERSHIPS.

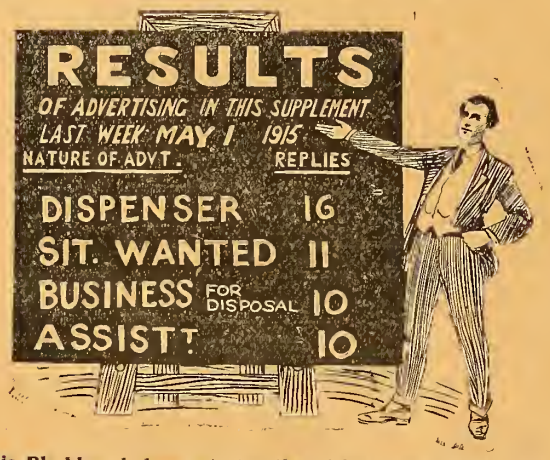
THE proprietor of a very old-established Perfumery, Toilet Requisite, and Toilet Soap manufacturing business, small, but with some good high-class Specialities, requires Partner to invest £500 to £750; the business has run down for one or two years owing to neglect, but has rapidly increasing trade now; capable of very extensive development; preference given to (1) Traveller with connection, or (2) manufacturing Chemist with knowledge of above goods, or (3) sleeping partner who could influence trade. Apply, 69/32, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BALHAM.—By May 20, a reliable Assistant required; outdoors; good salary to a desirable man; Photographic knowledge necessary; qualification not so essential as good Dispensing and general knowledge; abstainer preferred. Apply by letter, Cooper, Central Pharmacy, Balham, London, S.W.

BIRKENHEAD.—Unqualified Assistant. Send full particulars and photograph if possible to Thompson & Capper, Ltd., Mancsty Buildings, College Lane, Liverpool.

BIRMINGHAM District.—A vacancy occurs on the staff of old-established and up-to-date Store business for a sm and energetic Junior, well up in Dispensing and of smart gentlemanly appearance; easy hours and liberal salary; a wor will meet with every appreciation. Apply, with full particul to "X. Y. Z." (63/14), Office of this Paper.

BIRMINGHAM.—Two Assistants, one Junior and one Qualif required shortly, used to quick Cash, Retail, and Pl trade preferred. State when disengaged, salary (outdoors), references to C. T. Thonger, 77 High Street, Bournbrook.

BIRMINGHAM.—Capable Assistant wanted, middle of Junior earlier; qualification not essential, but must be good Counter-man and Window-dresser; some knowledge of Photography Optics desirable. Send fullest particulars as to experience, references, and salary required, with photo if possible, to Ll 323 Coventry Road, Birmingham.

BLACKBURN.—Unqualified Assistant wanted for Wholesale Retail business. Reply, stating age, salary required, references, C. A. Critchley & Co., Pharmaceutical Chemists, 10 King William Street, Blackburn.

BRIGHTON.—Lady Dispenser wanted; quick, accurate, relia State wages, experience, give references, and send ph if possible to Edgar Jones, 18 Trafalgar Street, Brighton.

CARDIFF.—W. T. Hicks & Co., Chemists, require a relia unqualified Assistant; good-class Dispensing and Co experience absolutely essential; hours, open 8.45, close Mon Tuesday 7.30, Wednesday 1.0, Thursday-Friday 8.0, Satu 10; no Sunday duty; permanent berth. State age, hei salary required (outdoors), particulars of previous engagem enclosing photo.

CASTLEFORD (Yorks).—Wanted, qualified Manager to full charge of old-established Chemist's shop with Wine Spirit licence; married and to live in house adjoining. St salary required, with experience and references. Apply, J. Johnson, Solicitor, Midland Bank Chambers, Castleford.

CHELTENHAM.—Assistant wanted for good-class Dispen and Family business; outdoors. Please give full particu as to salary required, etc., to Jeffrey & Son, Chemists, Pitt Cheltenham.

CHESHIRE (within short distance of Manchester).—Competent and reliable Assistant (permanency), capable of taking charge, for good-class and Mixed country business. Kindly s full particulars, etc., and salary required (outdoors), 67/36, C of this Paper.

CITY (London).—Qualified Assistant; Minor; must be qu accurate, and reliable Dispenser; hours 8.30 a.m. to 7 p Saturdays 1 p.m.; no Sunday or Bank Holiday duties; sa £130, with £10 increase yearly to £150. Apply, 64/23, C of this Paper.

COVENTRY.—Junior Assistant wanted; Dispensing and Co alternate weeks. State age, experience, salary requ (outdoors), references, Bird, Chemist, Spon Street.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

DARLINGTON.—Assistant required; abstainer preferred. Apply, stating age, height, experience, and salary required, to Waters, Chemist, Darlington.

DEAL.—Wanted at once, reliable Assistant, 23-25 years, for good-class Dispensing and Light Retail; good references essential; knowledge of French and Photography desirable. Usual particulars, with salary required (outdoors), enclose photo, to E. J. Dobson, 4 Victoria Road, Deal.

DONCASTER.—M. H. Stiles & Son have a vacancy for an unqualified Assistant. Apply as above, stating age, height, experience, salary required (outdoors), and enclosing photo (which will be returned).

EARL'S COURT, S.W.—Wanted, a qualified Junior Assistant (or unregistered would be entertained if experienced in Dispensing); indoors; four assistants kept. Apply by 'phone, letter, or interview to "A. H. H.," Tupholme & Son, 1 Colcherne Terrace, S.W.

EDINBURGH.—J. C. Pottage & Co. have a vacancy for a reliable Assistant, accustomed to a good-class business. State usual particulars, etc., to 115 Princes Street.

FELIXSTOWE.—Junior Assistant wanted; lady or gentleman; in- or out-doors. State experience, salary required, photo, and full particulars, to Brice, Chemist, Felixstowe.

FOLKESTONE.—Assistant (25-30) for high-class Light Retail and Dispensing. Photo and full particulars to Ransford & Cunningham, Folkestone.

FOLKESTONE.—Assistant wanted for Dispensing business, to live indoors with married Senior. Apply, stating age, salary required, and previous experience, to J. W. Stainer, Pharmaceutical Chemist, Folkestone.

GRANGE-OVER-SANDS.—Junior Assistant (lady or gentleman) for the month of June and longer if necessary; accustomed to good-class Retail business; short hours; weekly half-holiday. State age, height, salary required (outdoors), and references, with photo (if possible), to Duckworth, Pharmacist, Grange-over-Sands. Applications not answered in three days declined.

HULL.—Junior Assistant wanted, about 20, indoors, in good-class Retail and Dispensing business; two Assistants kept; short hours. State age, height, salary required, and references to Metcalfe & Son, Pharmacists, Hull.

LEICESTER.—Junior unqualified Assistant required; must be a good Counterman and Dispenser. Please state particulars of experience, references, age, height, salary required, and enclose photo (will be returned), Berridge, Ltd., Chemists, Leicester.

LONDON.—Messrs. Allen & Hanburys, Ltd., require immediately a qualified Assistant; good Dispensing experience essential. Apply to 37 Lombard Street, London, E.C.

LONDON (City and West-End).—Situations vacant now for smart Countermen; capable also at Dispensing Counter; young and energetic; permanency; outdoors. Apply, Cofman's Pharmacy, 6 Bloomsbury Street, W.C.

LONDON (City).—Young Junior Assistant wanted; outdoors; no Sunday or night duty. Apply, "X. Y. Z.," 19 Holcombe Road, Ilford, Essex.

LONDON, N.—Assistant wanted for Dispensing business in residential suburb; reasonable hours. State salary required and full particulars, R. Garnett Pickles, Ph.C., Church End, Finchley.

LONDON, N.E.—Qualified Assistant; outdoors; suit middle-aged gentleman. State salary and all particulars to Massingham, Ltd., Green Street, N.E.

LONDON, N.E.—Qualified Assistant; elderly preferred; comfortable berth for reliable man desiring a permanency. State salary, references, and all particulars to "Urgent" (69/34), Office of this Paper.

LONDON, N.W.—Assistant wanted (outdoors); must have first-class references and good Dispensing experience; hours 8.30 to 9, Saturdays 10.30; alternate Sunday evenings; half-day weekly and two hours off daily. Apply, stating salary required, to Duke, 138 High Road, Willesden Green, N.W.

LONDON, N.W.—Assistant wanted (outdoors) for good-class Dispensing business. Please state full particulars as to age, experience, salary required, etc., enclosing photo if convenient, D. T. Davies, 567 Finchley Road, Hampstead, London, N.W.

LONDON, N.W.—Experienced Assistant wanted, preferably qualified, lady or gentleman, for high-class Dispensing business. Apply, E. B. Stamp, 29 High Street, Hampstead.

LONDON Suburb.—Assistant, competent, unqualified; outdoors; good-class Retail, Dispensing, and Photographic experience essential. State age, height, experience, salary expected, when disengaged, photo (returned), 65/27, Office of this Paper.

LONDON, S.E.—Wanted, a Junior Assistant (outdoors) for a good-class Family and Dispensing business. Apply, stating full particulars, salary, etc., and when disengaged, J. W. Rumsey & Son, 481 Lordship Lane, S.E.

LONDON, S.W.—Reliable Assistant wanted; outdoors; whole- or part-time. Apply, by letter, to Evans, 72 North Side, Clapham Common, S.W.

LONDON, S.W.—Messrs. Savory & Moore require a qualified Assistant; good Dispensing experience essential; applications from ladies invited. Apply, with full particulars, stating when disengaged, to "Manager," 29 Chapel Street, Belgrave Square, S.W.

LONDON, S.W.—Assistant wanted for good-class Cash business; outdoors; hours 8.30 to 8.30; Wednesdays 1 o'clock; no Sunday or Bank Holiday duty; good salary to suitable man. Apply, with full particulars, salary, etc., to H. S. Durbin, 19 Victoria Road, Surbiton.

LONDON, S.W.—Junior Assistant, with Dispensing experience, required at once. State full particulars as to age, references, experience, and salary required (outdoors) to C. J. G. Bunker, York Street, Twickenham.

LONDON, S.W.—Competent Assistant required in good-class Dispensing business; qualified. Apply, giving particulars as to age, height, previous experience, etc., to W. W. Brunton & Co., 240 Earls Court Road, S.W.

LONDON, S.W.—Junior Assistant by the beginning of June for Counter work; outdoors; hours 8.30 to 8.30; Sunday duty every third 6 to 8 p.m. 93/33, Office of this Paper.

LONDON, S.W.—Counterman wanted, age about 25 years, to execute post orders, with a good knowledge of Proprietary Medicines and Sundries; no Front Counter trade. Write, stating full particulars of experience, to "L. J.," 242, Soll's Advertising Offices, Fleet Street, London.

LONDON, W.—Assistant, Part-time. Squire, 176 Uxbridge Road, Shepherd's Bush, W.

LONDON, W.—Capable Assistant, with Dispensing experience, about 24; outdoors. Write all particulars to save time to Harding, Chemist, The Avenue, West Ealing.

LONDON, W.—Qualified Assistant to sleep indoors. Application, by letter, giving particulars of experience, etc., to J. R. Walker, 36 New Cavendish Street, W.

LONDON, W.—A qualified Assistant as Senior, about 24, for high-class Dispensing business. W. McEwen, 17 Craven Road, London, W.

LONDON, W.—Junior Assistant or Improver wanted (outdoors) for Tablet-making (knowledge of this not essential) and Dispensing. Apply, "M." (92/39), Office of this Paper.

LONDON, W.—Required in a Dispensing business where three Assistants are engaged, Junior, with good previous experience; outdoors. Usual particulars, stating when disengaged, to 93/37, Office of this Paper.

LONDON, W.—A Junior Assistant; experienced. Apply to W. F. Pasmore, 320 Regent Street.

LONDON, W.C.—Smart unqualified Assistant required; preference given to one having a knowledge of Herbal remedies; permanency; progressive berth. 66/203, Office of this Paper.

MANCHESTER.—At once, a competent and reliable Assistant; unqualified; about 25; outdoors; Counter, Dispensing, Window-dresser. State salary required and give full particulars to Johnson, Chemist, Prestwich.

MANCHESTER. — Wanted at once, experienced unqualified Assistant; also Junior. State age, salary required, references, etc., in first letter. Apply, Butcher & Simmons, 329 Chapel Street, Salford.

MIDLANDS. — Assistant for high-class Dispensing business; wages 2 guineas. 67/25, Office of this Paper.

MIDLANDS.—Qualified Manager (outdoors) to take sole charge required for old-established Light Middle-class business, with little N.H.I. Dispensing; should be a good Counterman; a comfortable and permanent berth for an energetic, competent, and trustworthy man; half-day holiday weekly; no Sunday duty. Reference, age, and salary required to Chas. Potts, Ltd., Chemists, Ilkeston.

NEAR MANCHESTER.—Wanted, young Lady Assistant able to Dispense. State age, salary, experience, and references, 69/09, Office of this Paper.

NEAR MANCHESTER.—Improver or Junior (outdoors) for quick Cash trade; state age, experience, and salary required; half-holiday weekly; no Sunday duty. Address, stating age, salary, and references, 69/9, Office of this Paper.

NORTHAMPTON.—Reliable qualified man (outdoors) wanted for a sound old-established business to take charge in absence of proprietor, who lives away; one seeking a permanency; must be energetic, up-to-date business man with selling ideas and ability; good progressive salary with good prospects. Apply, with full particulars, age, references, experience, and photo, L. North, Weston Road, Northampton.

NORTH WALES.—Assistant wanted, about 25, for season; chiefly for small Branch; indoors; pleasant locality. State age, height, and salary required to Davies, Chemist, Rhyl.

NOTTINGHAM (Near).—Junior or Improver; outdoors; time for study if required. Please send all particulars to Bell, Chemist. Stapleford, Notts.

PORTSMOUTH.—Qualified man to Manage small neglected business for Chemist's widow; Wednesdays from 1 o'clock and alternate Sunday duty from 6 to 10. State lowest salary (live in or out), 66/18, Office of this Paper.

RUGBY.—Required immediately, Junior Assistant; high-class Dispensing and Retail; good wages to right man; exceptional facilities for gaining experience; outdoors. Apply, giving full particulars, to P. G. Chamberlain, M.A., c/o Messrs. A. G. Chamberlain & Co., Chemists, Rugby.

S.W.—WILLIAMS & ELVEY, West Halkin Street, Belgrave Square, want a qualified Assistant; outdoors. Usual particulars to S. R. Powell, 8 West Halkin Street, S.W.

ST. LEONARDS-ON-SEA.—Assistant wanted (indoors) for Light Retail and Dispensing. State age, height, references, and salary required, enclosing photo, to T. W. Jones, 55 Bohemia Road, St. Leonards-on-Sea.

SHERINGHAM.—Wanted, Assistant; outdoors; unqualified. Apply, giving full particulars, to J. B. Gooch, W. H. Burrell & Co., High Street, Sheringham.

SHREWSBURY.—Junior; outdoors; no Sunday or extra duty; please send full particulars in first letter, where experience has been obtained, salary, etc. Apply, A. Williams, M.P.S., 25 Victoria Street, Shrewsbury.

SOUTH COAST.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

TORQUAY.—Assistant required, having good Dispensing experience. Apply, E. Quant, Torbay Pharmacy, Torquay.

WESTON-SUPER-MARE.—Wanted, a competent and trustworthy Assistant, to live indoors with housekeeper; accustomed to good-class Retail and Dispensing. State salary and full particulars, Edwin Norman, 35 High Street, Weston-super-Mare.

YORKSHIRE.—Wanted, a reliable Assistant for a good-class business situated in a small market town; must be smart and obliging, with knowledge of Photography; married, to live on premises; qualification not essential if capable of taking charge. Apply, with full particulars, to C. Midgley, Market Place, Bedale, Yorks.

A COMFORTABLE Home and moderate salary to an elderly qualified gentleman as Assistant in good-class business; close at 8; half-holiday weekly; no Sunday duty; healthy district. Apply, with full particulars, references, age, and salary, to P. R. Hill, Photographic and Pharmaceutical Chemist, 90 High Street, Gorleston-on-Sea.

AN Assistant (outdoors) for good-class Country business; no Sunday duty. State salary and experience to F. Fresson, Pharmacist, Stevenage, Herts.

ASSISTANT, unqualified, wanted for Counter and Dispensing; also N.H.I.; accustomed to good-class business; outdoors. Apply, stating salary, experience, references, to James Lloyd, 125 St. John's Hill, Clapham Junction, S.W.

ASSISTANT (outdoors) used to good-class work; no Insurance Dispensing; capable Dispenser. Apply, Yates, Chemist, Claughton, Birkenhead.

ASSISTANT wanted; capable, obliging, reliable; single; one with country experience, Prescribing, Extracting, etc., and good references; qualified or unqualified; reasonable hours; outdoors; good salary and commission. Apply, with particulars of experience, age, height, and, if convenient, photo (to be returned), Hughes, Dental Chemist, Abercarn, Mon.

ASSISTANT wanted in good-class suburban business; must b good Dispenser, lady or gentleman. Send full particulars Frank Inglis, Pharmacist, Heaton Moor.

BROWN'S DRUG CO., High Ousegate, York, require, as earl as possible, young Junior Assistant, about 21 years, for quic Cash trade. Applicants please give full particulars of age, salary height, and when disengaged in first letter, and enclose phot (to be returned), to C. M. Brown, Chemist, as above.

CAPABLE Assistant wanted, with good all-round experience outdoors; good salary; also Junior or Improver for Dis pensing. Apply, Arnold Roberts, High Street, Acton, W.

COMPETENT Assistant in first-class Retail and Dispensing business; outdoors. Apply, with full particulars, to A. W. c/o Alsop & Quiller, 137 Sloane Street, S.W.

DISPENSERS (qualified).—Two required at once. Apply, per sonally or by letter, stating full particulars of experience, t Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

ELDERLY qualified Chemist required; duties light; comfort able permanency. State when at liberty, "Kirk" (66/23) Office of this Paper.

FIRST Week in June.—Capable Junior Assistant, unqualified for good-class Light Retail and Dispensing; indoors; tim for study if desired. If writing, state usual particulars an enclose photo, to G. Dauncey, 6 Nugent Terrace, St. John's Wood N.W.

IMMEDIATELY.—Capable Assistant, accustomed to Retail an Dispensing business; outdoors; two kept. Alban Atki 243 West End Lane, West Hampstead.

IMMEDIATELY.—Locum; outdoors; Dispensing business. Stat salary required and references to 67/31, Office of this Pape

JOHN BARKER & CO., LTD., Kensington, W., require a qual fied Dispenser and an unqualified Counterman. Apply R. H Baron.

JUNIOR Assistant, or lady, for good-class Dispensing and Photo graphic business. Please state age, experience, and salar required to G. A. Morris, The Rexale Pharmacy, 24 High Street Rochester, Kent.

JUNIOR or Improver; fair General trade; moderate hours Apply, giving full particulars, to Jones Bros., Pharmacists 94 High Street, Mexborough.

JUNIOR or Improver (outdoors) for good-class business; n Sunday duty. Please state age, references, salary, etc., wit photo, to J. Newcome, Chemist, Grantham.

JUNIOR Assistant wanted (outdoors) for good-class Dispensin business. Send photo, full particulars, and salary require Dring, Chemist, Teignmouth.

JUNIOR for Dispensing business; one with knowledge of Phot graphy preferred; two kept. Apply, with full particular J. Parrott, Richmond Hill, Surrey.

JUNIOR wanted (outdoors), 20 to 23. State salary required an usual particulars, W. Roberts, Chemist, 73 Brook Stree Chester.

JUNIOR wanted for good-class business; knowlelge of Phot graphy preferred; indoors or out. Give full particulars an references and state salary required, A. G. Reid, Petersfield Hants.

JUNIOR Assistant (outdoors) in good-class Retail and Dis pensing business near Birmingham. Send full particulars o experience, stating age and salary required, 67/28, Office of th Paper.

JUNIOR, unqualified, age 21-22, to keep up Stock and assis at Counter; state age, height, salary (outdoors), reference and photo if convenient, or personal interview; hours of busine 8.30 a.m. to 8.30 p.m.; alternate Sunday evening duty; hal holiday. Presley, Tram Centre, Bristol.

JUNIOR, Improver, or reliable Assistant wanted; no night Sunday, or bank-holiday duty. Burrows, Chemist, Gains borough, Lincs.

JUNIOR or Improver; good-class business. Please state ful particulars, salary, etc., to Litchfield, Pharmacist, South Farnborough, Hants.

JUNIOR Assistant wanted, with Minor qualifications; previou West-End experience not essential. Apply, stating age, ex perience, and salary expected, to "Symbolic," c/o Maw, Son & Sons, 7-12, Aldersgate Street, E.C.

LADY Dispenser to Medical Man; to live out; must have usual qualification; good references essential; no bookkeeping; hours and work light. Send photo and state salary required, Dr. Boissier, Banbury.

LADY Assistant required to help lady proprietress during summer months in seaside town; must be qualified; used to Dispensing and Retail business; outdoors; state age, salary, and all particulars. Apply, 62/10, Office of this Paper.

LADY Dispenser, Hall qualification, wanted at once; also unqualified Assistant end of June; tall, capable; good salaries to suitable applicants. F. D. Spencer, The Pharmacy, Stratford-on-Avon.

LOCUM required, unqualified Junior, end of May or early June; ten days or a fortnight; outdoors. H. Reynolds, Chemist, Broadway, West Worthing.

LOCUM wanted at once, reliable man, experienced Dispenser, for best-class business; outdoors; no N.H.I. work. Apply, giving references, experience, and salary required, to J. W. Moorhouse, Pharmacist, Barnsley.

LOCUM.—Qualified man required to commence on May 30 to relieve during Manager's holidays; permanency afterwards if satisfactory. State age and salary required, "Relief" (66/302), Office of this Paper.

LOCUM, qualified, reliable, quick Cash trade, May 23, for week or ten days; also relief Assistant one morning or afternoon each week; not Thursday or Saturday. Goodall, 66 Lower Richmond Road, Putney, S.W.

MANAGER, qualified, at once; £3, with 5s. annual rise to £4, for suitable man; working-class district; reasonable hours. Full particulars to Snell, Chemist, Accrington.

MANAGER for Branch; to live on premises; married preferred; N.H.I. work, Dispensing; Light Retail. State salary, references, and full particulars to Melbourn, 2 College Crescent, Hampstead.

MANAGER for small Branch; qualified; live on premises; suit elderly man; light hours; no evening or Sunday duty. When writing, give full particulars and salary required to J. W. E. Coley, The Banmit Trees, Stroud.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good, and progressive salary, with excellent prospects.

PART-TIME; very suitable for student; good address necessary. Tate, 7 Belgrave Mansions, Victoria, S.W.

PELHAM YOUNG, Pharmacist, Hounslow, requires a competent indoor unqualified Assistant; good Dispenser and up in Photography and General Retail; comfortable home. Apply personally if possible, and if by letter with full particulars. Telephone 153 Hounslow.

QUALIFIED Assistant required for Dispensing and Counter. Please send particulars as to salary, references, and when at liberty to James Beard, Ltd., 16 Great Ancoats Street, Manchester.

QUALIFIED Manager for single-handed Branch; used to modern Store business and N.H.I. work; live on premises. Full particulars to A. Owen, 260 Upper Tooting Road, S.W.

QUALIFIED Assistant for Dispensing Counter; gentlemanly; good references. Send full particulars, including salary required, to Southall, Bull Street, Birmingham.

QUALIFIED Manager (outdoors) for a small Branch in a good-class district; would suit active, middle-aged man seeking a permanency. Please state age, salary expected, references, and full particulars, Walls, Chemists, Ltd., 76 Porter Street, Hull.

QUALIFIED Assistant, age about 25, required at once for the Front Counter of a large London stores; hours 8.45 a.m. to about 6.15 p.m. Apply, Drug Department, Junior Army and Navy Stores, Ltd., 15 Regent Street, S.W., stating experience and salary required.

QUALIFIED Assistant, age about 23-25, required for first-class business near London; permanency, with excellent prospects of advancement. "Ford" (66/023), Office of this Paper.

QUALIFIED Assistant wanted, with good experience, for a busy old-established Country Pharmacy near South Coast; a Pharmacist with capital after a few months' mutually satisfactory Assistantship would have the option of a Partnership or complete purchase; the business is one of the most profitable in the country, and is an opportunity seldom offering. "Iovine" (65/034), Office of this Paper.

QUALIFIED Assistant, outdoors, required on July 1. Atkins & Son, Pharmacists, Salisbury.

QUALIFIED Manager required for Branch business. Please give full particulars as to salary required, etc., Bryden, 73 Kent Street, Barrow-in-Furness.

QUALIFIED Manager wanted for good-class Family and Dispensing business; outdoors; no Sunday duty. Send particulars, if married, salary required, and photograph. Also reliable Assistant wanted; capable of taking charge occasionally; no Sunday duty; knowledge of Photography needed. Send particulars, salary required, if married, to Shawyer, Chemist, Swindon.

QUALIFIED Manager (outdoors), single preferred, required early in June for Retail and Photographic business; must be fully competent to take entire control, active, and possess undeniable references; permanency. Please give fullest particulars in first instance, age, references, and salary required, enclosing photo (to be returned). "Monmouth" (67/20, Office of this Paper.

RELIABLE, qualified Assistant; able to take charge occasionally. W. Shadforth, Pharmaceutical Chemist, 63 Grove Road, Bow, London, E.

UNQUALIFIED Assistant or Junior for good-class Retail and Dispensing business; knowledge of Photography preferred; short hours and no Sunday duty; good salary to competent man. Full particulars to Tavener, Pharmacist, Guildford.

UNQUALIFIED; age about 25; Counter and Dispensing, including N.H.I.; good-class business. State salary required and experience, Vince, Pharmacist, Lancaster.

UNQUALIFIED Assistant for the Counter required at once; must be a good Salesman and accustomed to a thoroughly good-class business; age about 25 to 28; salary £2 10s. per week and commission; references must bear the strictest investigation. Apply, stating fullest particulars, to 66/28, Office of this Paper.

UNQUALIFIED Assistant wanted, permanency, high-class Store Pharmacy, South Coast; hours 8.30 to 8, Wednesday 1 o'clock; no Sunday duty; progressive salary and commission to right man; smart Counterman and neat Dispenser. State age, height, married or single, experience, when disengaged, Simpson, 135 Queen's Road, Brighton. Applications treated in confidence.

UNQUALIFIED Assistant required; middle-aged man not objected to. Apply, Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

VACANCY occurs for Manager; qualified; old-established Store Pharmacy in Brighton; must be good Counterman, smart Window-dresser, up-to-date business man; character bear strictest investigation; salary 65s. per week and share of profits; splendid opportunity for pushing man. State age, height, experience, fullest particulars, when disengaged (application treated in confidence), Taylor & Co., 59 North Street, Brighton.

WANTED at once, Assistant; male or female. Write, with full particulars, to 62/34, Office of this Paper.

WANTED at once, capable unqualified Assistant. Write, stating age, salary required, and usual particulars, to P. G. Dales, Stairfoot, Barnsley.

WANTED, Junior, Improver, Lady Assistant, or Part-time Assistant. Full particulars to Jeans, 151 Oxford Road, Manchester.

WANTED, for May 1, smart Junior or Improver for seaside Branch; moderate hours; used to N.H.I. Dispensing. Send particulars of age, experience, references, etc., to Walker & Harris, Ltd., Canterbury.

WANTED at once, Pharmacist; good Dispenser and Counter. Wire or write terms, "Pharmacist," c/o Samuel Shelley, Ltd., Bilston, Staffs.

WANTED.—Assistant for old-established Country business; outdoors; comfortable situation. Apply, with usual particulars, to Gostling & Co., Diss, Norfolk.

WANTED at once, qualified Assistant, experienced and good Salesman, to sleep indoors; separate sitting-room; board out. Apply, if by letter enclose photo (to be returned), or personally, to R. S. Starkie, 126 Strand.

WANTED, an experienced Dispenser and Window-dresser. Photo and all particulars to Holloway, Pharmacist, Southend-on-Sea.

WANTED at once, Assistant; must be good Dispenser. Apply, with full particulars, and photo if convenient, Thomas, Saxby & Milne, Cheltenham.

WANTED by a Medical Man, a Dispenser and Bookkeeper; male or female. Apply at first in writing, stating age, previous experience, references, and salary required; a personal interview will be necessary any evening between 6 and 8 or before 11 in the morning, "A.," 24 Cedars Road, Clapham Common.

WANTED, at early date, unqualified Assistant, about 22-25; easy hours; liberal salary; outdoors; in good-class all-round business. Photo if possible, references, and all particulars, T. L. Nicholls, Pharmacist, Chelmsford.

WANTED, an experienced Assistant, capable of taking charge in first-class Dispensing business, for London, West End. 65/4, Office of this Paper.

WANTED immediately, a fully qualified Dispenser for the Military Hospital, The Barracks, Chichester; salary 6s. per day, with rations and quarters. Apply Medical Officer in Charge.

WANTED immediately, qualified, quick Dispenser and Counterman; state age and salary. Send references to W. H. Corns, 42 Dudley Road, Wolverhampton.

WANTED.—Smart Assistant for high-class Pharmacy; must have had good experience as either Dispenser or Counterman. State full particulars as to experience, age, height, salary required, and enclose photo to Ralph Cuthbert, Ltd., Chemists, Westgate, Huddersfield.

WANTED.—Thoroughly experienced young ladies as Chemists' Assistants for Liverpool. Apply, Box 73, Post Office, Liverpool.

WANTED.—Assistant; Light Retail and Dispensing business; knowledge of Photography; short hours; no Sunday duty. Apply, stating salary required and references, D. M. Laidlaw, 73 Church Street, Basingstoke.

WANTED, qualified Assistant, soon as possible; Mixed Country business, Photography, etc.; indoors or outdoors; able to take charge when required. State salary, age, references, and all particulars to George Pattrick, Consett, Durham.

WANTED, a Lady Dispenser and Bookkeeper by a Medical man. Please state age, height, experience, and salary, Trevor Howell, F.R.O.S.E., Barnsley.

£2 2s. salary and bonus to really smart, energetic unqualified Assistant capable of giving real help to a manager; permanency. "H. F. D." (66/230), Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LONDON, S.W.—Counterman wanted, age about 25 years, to execute post orders, with a good knowledge of Proprietary Medicines and Sundries; no Front Counter trade. Write, stating full particulars of experience, to L. J., 242, Sell's Advertising Offices, Fleet Street, London.

SOUTH COAST.—Dry Counterman required; experienced; permanency if suitable. Please state age, salary expected, etc., Timothy White Co., Ltd., Portsmouth.

SOUTH COAST.—Wet Counterman required; experienced; permanency if suitable. Please state age, salary expected, etc., Timothy White Co., Ltd., Portsmouth.

A FIRST-CLASS house with world-wide trade is now considering applications from Salesmen of ability and attractive personality for the following: Birmingham and District, Leeds District, Leicester, and Eastern Counties; will be required to take care of Chemists, Medical Profession, and Institutions. Write fully, stating experience and salary required, 64/21, Office of this Paper.

ALLEN & HANBURYS, Ltd., Bethnal Green, E., require a man accustomed to the Drug trade, with experience of Tablet Making, including Sugar Coating. Apply by letter, stating age, experience, and salary required.

CAPABLE qualified Chemist wanted for Wholesale trade. Apply, Newball & Mason, Nottingham.

CAPABLE qualified Assistant required in Wholesale Department of large high-class firm of Chemists in the Provinces; would be required for Testing Drugs and Laboratory Preparations, and for Experimental work. Mention age, salary desired, and customary information. "S. J." (67/14), Office of this Paper.

CLERK wanted for Dissection work in cost office of provincial Wholesale Druggist; must have knowledge of trade. Apply, giving particulars of experience, age, salary required, references, etc., to "Coster" (90/55), Office of this Paper.

EXPERIENCED Forewoman wanted for the Packed Drug trade. Apply by letter, giving full particulars, age, experience, wage, etc., Box 17,622 Haddon's Advertising Offices, Salisbury Square, E.C.

EXPERIENCED Pillmaker required by North London firm; liberal salary given to suitable man. 93/34, Office of this Paper.

FOREWOMAN for Perfumery Workroom; experienced in controlling staff of finishers and maintaining high standard of work; able to exercise responsible supervision of all detail, to maintain discipline, and keep output records; good wages to capable and experienced young woman. Apply, in first instance by letter, to Morny, 201 Regent Street, W.

INVOICING Clerk, with experience in Wholesale Druggists, required for keeping Workroom and Laboratory records, etc.; must be good writer and neat and accurate worker; good wages given. Apply, by letter, to Morny, 201 Regent Street, W.

LABORATORY.—Wanted, qualified man with practical Laboratory experience as Sub-Manager; also qualified Assistant for Laboratory. Address application, with full particulars of age, qualification, experience, and salary required, to Mr. E. W. Mann, B.Sc., F.I.C., Messrs. Southall Bros. & Barclay, Ltd., Lower Priory, Birmingham.

LADY Pharmacist, preferably with Major qualification, wanted to assist in a Pharmaceutical Literary Department. Apply, with full particulars, and references and salary desired, to 91/37, Office of this Paper.

PACKER wanted at once; used to packing Liquids in cases and hampers; good wages to reliable man. Apply, Burgoyne, Burbidges & Co., High Street South, East Ham, E.

REPRESENTATIVE for Essences, etc., in British Colonies wanted by an old-established and first-class firm manufacturing Fruit Essences, Essential Oils, and Synthetic Perfumes; applicants must be well introduced in the British Colonies, and only those who have represented first-class houses and can prove their yearly sales, etc., need apply; good salary. Apply by letter, giving full particulars, to P. H., c/o G. Street & Co., Ltd., 8 Serle Street, London, W.C.

REPRESENTATIVE.—Wanted, for an old-established and high-class business in the North of England, Representative to call on Medical Men with Drugs and Surgical Instruments; must be well educated and have a thorough knowledge of Drugs and Pharmacy, and be of gentlemanly appearance and address. Apply, stating qualification and experience, age and salary required, and photo if possible, to "Surgical," c/o Messrs. T. Morson & Son, Elm Street, Gray's Inn Road, London, W.C.

REPRESENTATIVE for London and Suburbs wanted immediately to call upon Chemists exclusively; to a qualified chemist (not over 35) of good address, with sound experience in high-class Retail business, and capable of inducing and exploiting business, the position offers excellent prospects; previous travelling experience an advantage, but not absolutely essential. Apply, giving full particulars as to age, experience, if married, and salary expected, also when disengaged, "Sundries" (93/23), Office of this Paper.

REQUIRED at once, Wet Floor Assistant; Home and Export. Apply, giving full particulars and wages required, to "Wets" (93/39), Office of this Paper.

REQUIRED, for London Wholesale Druggist, Pillmaker; previous experience in Pearl and Gelatine Coating absolutely necessary. Apply, giving full particulars and wages required, to "Pills" (92/13), Office of this Paper.

SMART Traveller required to represent Wholesale Tooth-brush Manufacturer and Druggists' Sundriesman, to call on Drapers, Chemists, etc.; South London districts. Apply, 68/38, Office of this Paper.

UNQUALIFIED young Assistant, with Retail experience, for large firm of London Wholesale Chemists. State age, salary, etc., to 93/17, Office of this Paper.

WANTED, Assistants for Wet Floor, Citrate Room, and General Laboratory work. Apply to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

WANTED, by a firm of Wholesale Chemists and Druggists, a man for Dry Counter; must have had good experience and be exempt from military service. State wages, 69/26, Office of this Paper.

WET and Dry Counterman required for City house. Apply, giving full particulars, 88/73, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

ASSISTANT Anglais, parlant couramment le français, ayant une bonne pratique et de sérieuses références, est demandé par la Pharmacie Principale, Genève (Suisse).—Correspondre en français.

QUALIFIED Chemist's Assistant wanted for British East Africa, with a knowledge of Photography; salary first year £300, second year £325, third year £350; second-class passage paid out. Apply by letter, stating age and qualifications, and enclosing copies of testimonials, to Davis & Soper, Ltd., 54 St. Mary Axe, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.] RETAIL.

ADVERTISER; 34; qualified; good Dispensing; London store and provincial experience; at present managing in Provinces. Reply, 66/39, Office of this Paper.

AS Branch Manager; outdoors; qualified; wide and varied experience; disengaged. "Statim," 4 Edwardes Terrace, Kensington, W.

AS Junior or Improver; willing and obliging; tall. 65/1, Office of this Paper.

ASSISTANT desires permanency, Dispensing, Counter, and Photo; best references; North preferred; disengaged May 17. Apply, J. H. Martin, Wynd, Bedale.

ASSISTANT or Locum; unqualified; tall; 42. "Salol," 56 St. Mary's Terrace, Hastings.

ASSISTANT; unqualified; 27; married; good general experience; permanency; good references; disengaged at own convenience. "D.," 38 Belmont Road, Beckenham.

ASSISTANT (25); unqualified; all-round experience; competent to take charge; 11 years last berth. "Valerian" (67/23), Office of this Paper.

BIRMINGHAM or near preferred; Manager; qualified; 43; hard worker; smart Counterman; quick Dispenser; Extractor; Photography; accustomed sole charge. Jennings, Lester Place, Dudley.

BIRMINGHAM (or neighbourhood).—Lady Dispenser disengaged; Locum; permanency; references. "Aston Manor" (65/25), Office of this Paper.

BRANCH Manager or Senior, 30, qualified, single, desires a change; good references; all-round experience; Midlands district. State full particulars, 67/22, Office of this Paper.

COUNTRY OR SEASIDE.—Manager; qualified; married; 35; Retail, Dispensing, Optics, Photography, Artist, and Store trade; preferably view succession. 62/6, Office of this Paper.

DANE, qualified (26), speaking English, French, and German, knowledge of Photography and Analytical work, wishes situation. Schauw, Neuenhofstrasse 12, Zurich, Switzerland.

DISENGAGED.—Emergency Assistant or Locum; thoroughly competent; reliable; experienced; first-class testimonials; a few summer dates vacant; terms moderate. "Energy," 29 Mardale Street, Shepherd's Bush.

DISENGAGED.—Qualified; reliable and thoroughly experienced. 66/5, Office of this Paper.

DISPENSER and Bookkeeper; excellent references. "Iota," 28 Park Grove, Portway, West Ham.

DISPENSER (Hall), young woman, experienced, speaking French, desires few lessons in French Pharmacy in London (evenings). State fee, 13 Ingleby Road, Holloway.

DISPENSER (26), disengaged June 1, desires post with Doctor; London preferred; Hall certificate; nearly 2 years' experience; good writer; clergyman's son. "Sigma," Glen Roy, 113 Earlham Road, Norwich.

DISPENSER, Hall certificate, trained nurse, Doctor's institution, Retail experience, requires post; London or suburbs. "Sigma," 119 Walm Lane, N.W.

DISPENSER, Supervisor, etc.; 42; Minor qualification; single; would join Hall man. "Assistance" (69/3), Office of this Paper.

DISPENSER to Doctors, etc.; age 45; unqualified; well up; steady and obliging; permanency desired. Apply, stating salary, etc., B., 15 Tanfield Road, Croydon, S.E.

DOCTOR'S Dispenser and Bookkeeper; age 35; strictly temperate and good references. 66/11, Office of this Paper.

IMPROVER, age 19, tall, good address and appearance, requires indoor situation; used to Counter and Dispensing; excellent character. "Salol" (63/17), Office of this Paper.

JUNIOR.—Part-time two or three evenings a week only. Apply, 66/24, Office of this Paper.

LADY, 23, tall, requires position as Perfumery and Toilet Assistant; 4 years' experience; could assist with books and stock. 63/8, Office of this Paper.

LADY Assistant (25), just passed Apothecaries' Hall, desires position where further Dispensing experience could be obtained; outdoors; S. London preferred; three years in good Pharmacies. "M. D.," 77 St. James Road, Brixton, S.W.

LADY Dispenser-Bookkeeper (Hall) desires post; experienced; West London preferred. 64/40, Office of this Paper.

LIVERPOOL or Near.—Qualified lady Assistant requires berth; served apprenticeship with firm of Chemists; Hospital and Retail experience; interview Monday. Write, "X.," 42 Powys Street, Warrington.

LOCUM; 29; unqualified; good experience; disengaged May 20. "G. L." (63/9), Office of this Paper.

LOCUM, Manager; fine experience; absolutely trustworthy. "Qualified," 3 London Road, Tooting Junction, S.W.

LOCUM; qualified; town or country. West, 47 Vicarage Road, Leyton, London, N.E.

LOCUM or Assistant; qualified; disengaged; middle-aged. "Chemist," 68 Grove Lane, Camberwell.

LOCUM; 30 years' wide experience; qualified; a few dates only vacant. M. Smith (Manchester), 47 High Street, Ipswich.

LOCUM; qualified; wide experience; highest references; disengaged. 11 Woodhurst Road, Moseley, Birmingham.

LOCUM or temporary Manager; qualified; 23 years' first-class Store and Dispensing experience; disengaged immediately. "Aspirin," 47 Wolseley Avenue, Wimbledon Park, London.

LOCUM; 38; London and Continental experience; now booking dates from June 15. 67/10, Office of this Paper.

LOCUM or Part-time.—Qualified; 32; excellent experience; good references; disengaged June. 65/30, Office of this Paper.

LOCUM, experienced, disengaged in fortnight; good references; seaside preferred. 66/10, Office of this Paper.

LOCUM; unqualified; experienced; trustworthy; abstainer; London. "Xaxa" (69/19), Office of this Paper.

MANAGER or Assistant; age 49; unqualified; married, no family; active; sober; experienced Dentistry, Photography; country preferred. "Dispenser," 67 Gauden Road, Clapham, London.

MANAGER; qualified; resident or outdoors; 40; married; abstainer; London or Suburbs; disengaged May 17. Evans, 153 High Road, Wembley.

MANAGER; 50; 20 years own business; permanency; £4 weekly; at liberty 20th. 67/12, Office of this Paper.

MANAGER, qualified, with first-class all-round experience, desires responsible position with scope for energy and capability; salary and commission. 64/22, Office of this Paper.

MANAGER, qualified, 39, seeks permanency. 67/32, Office of this Paper.

MANAGER; qualified; energetic; thoroughly capable management; some years' West-End Store Pharmacy; could introduce business; disengaged. Particulars to "Pharmacist," 50 Shirland Road, W.

MIDDLE-AGED qualified man has spare time; single; good varied experience, but not in business recently; terms to suit; in- or out-doors. "Minor" (69/03), Office of this Paper.

PART-TIME, Dispensing, Counter, Photography; free all evenings; first-class references; S.W. preferred. 62/36, Office of this Paper.

PART-TIME.—Qualified Lady Dispenser disengaged evenings. "E. S. B.," 7 Carleton Road, Tufnell Park.

PHARMACIST, aged 32, who has recently disposed of his business, is open to take occasional or Locum work; good all-round experience. 63/1, Office of this Paper.

PHARMACIST, 27, requires post in Military Hospital. C/o Johnson, Chemist, Birkley, Huddersfield.

PHARMACIST (28) desires berth as Branch Manager in the North of England. "Aspirin" (65/3), Office of this Paper.

QUALIFIED, Locum, or Permanent, shortly requires Managership; good experience of all classes of the business. Plummer, Thormanby Hill, Easingwold, Yorkshire.

QUALIFIED; married; 31; 3 or 4 evenings weekly; disengaged. "Senior," 31 Great St. Andrew Street, W.C.

QUALIFIED; single; disengaged; 18 years' varied experience; Manchester district; interview only; Branch Manager or Senior; excellent references. "M.P.S.," 20 Raike's Parade, Blackpool.

QUALIFIED; reliable; experienced; 31; Locum; permanency. "Argon," 19 Newcombe Street, Anfield, Liverpool.

QUALIFIED Chemist desires post as Manager of good and increasing business; not a cheap man, but willing to put every ounce of energy into the business in return for considerate treatment; healthy district essential. 62/32, Office of this Paper.

QUALIFED Manager, Locum; 37; experience all classes; disengaged; good salary essential. 66/32, Office of this Paper.

QUALIFIED Locum; permanency; 36; married; Counter, Dispensing. 65/24, Office of this Paper.

QUALIFIED Chemist (Major) desires post as Manager, preferably with view to succession; thoroughly understands buying, organising, advertising, Prescribing, and every branch of the business; can be disengaged at short notice. Apply, "Veteka" (65/32), Office of this Paper.

QUALIFIED.—Principal; 35; Locum or Manager. "Truth" (66/6), Office of this Paper.

QUALIFIED.—Smart young Chemist requires post. 65/40, Office of this Paper.

QUALIFIED; 34; high-class and store experience, London and provincial; Midlands preferred. Reply, 66/039, Office of this Paper.

QUALIFIED, single, age 42, seeks permanency as Manager (in view of succession); good varied experience; sober and trustworthy. 69/24, Office of this Paper.

SOUTH LONDON.—Qualified; 15 years' experience; disengaged one or two evenings weekly. 65/5, Office of this Paper.

SURGICAL Assistant; 11 years' all-round experience. 21 Edithna Street, Stockwell, London.

UNQUALIFIED experienced Assistant desires Locum or permanency; London or Suburbs; Dispensing only. 65/2, Office of this Paper.

UNQUALIFIED, age 33, tall, first-class references, London experience, wants berth as Manager of Drug Store; Locum work. "Calox" (65/10), Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ADVERTISER (20 years' experience in City firm of Druggists' Sundriesmen, etc.) desires position as Buyer or Order Clerk (Export). Kindly state salary and prospects, Charles, 28 Queen Elizabeth's Walk, Lordship Park, N.

ADVERTISER seeks position as Manager or Assistant Manager in Wholesale house; experience in large English firm and in India; at present in India; young, energetic, reliable; any part of the world, but England preferred. 61/8, Office of this Paper.

ADVERTISER (40) desires responsible position, any capacity, in Wholesale; first-class Retail experience; good references. "Camphor" (69/23), Office of this Paper.

CHEMIST (Major), 15 years in Wholesale and Retail, organising and advertising experience, seeks Managership of small Wholesale business or Department. 69/27, Office of this Paper.

DOES any firm require services of energetic Chemist with thorough knowledge of business, Wholesale and Retail, including office and representative work, abstainer? 66/030, Office of this Paper.

FRENCH-SWISS (24), 5 languages, 7 years' business experience in large Continental firm, desires any situation; Chemical and Drug trade preferred; highest references. 69/29, Office of this Paper.

QUALIFIED, 27 years' successful Retail experience, desires position as Representative of Wholesale House; tall; well-educated; healthy. State terms to "Grip" (63/18), Office of this Paper.

RE-ENGAGEMENT; extensive experience as Representative over Yorkshire and the North; accept temporary position; Sundries, Fancy Goods, Toilet Articles; abstainer; energetic. 68/7, Office of this Paper.

REPRESENTATIVE; 35; qualified; experienced Traveller, with up-to-date methods; sound connection, London and Suburbs. "Hustler" (66/19), Office of this Paper.

SALESMAN-TRAVELLER requires Agency for Liverpool, North of England, and Wales; Sundries, Toilet Requisites, Soaps. Full particulars to "Dependable" (67/9), Office of this Paper.

THE services of a man holding valuable connection with the Chemists and Stores throughout the U.K., and particularly the North and Midlands, are offered to a progressive firm in the Drug or allied trades as Representative; highest credentials; would consider responsible indoor berth; sales, promotion, organising, and advertising ability. 64/18, Office of this Paper.

WEST OF ENGLAND.—Gentleman covering this ground desires additional Agency (for well-known house); part expenses and commission; references; guarantee. Address, "Fidelity" (65/17), Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

QUALIFIED, sound practical knowledge all departments, Retail, Wholesale, accustomed to control, requires position, Manager; position of trust; abstainer; extensive experience, branch work. 66/30, Office of this Paper.

WANTED for period of 5 or 10 years, position as qualified Assistant or Manager, outside the British Isles; Rhodesia not objected to; aged 36. Full particulars, "Hyperope" (63/4), Office of this Paper.

WANTED, berth as Representative of English Drug and Sundries house in India and the East; advertiser returning from India shortly. 61/08, Office of this Paper.

MISCELLANEOUS.

SHOPFITTINGS (Second-hand).—12-ft. Plate-glass fronted and solid Mahogany Counter, £8 10*s.*; 10-ft. ditto, £7 5*s.*; Perfumery Case and Desk, mirror box, glass shelves, solid Mahogany, 57*s.* 6*d.*; 6-ft. Mahogany and Bent Plate-glass Counter Case, 92*s.* 6*d.*; other bargains. Philip Josephs & Sons, Ltd., 93 Old Street, E.C.

SECOND-HAND Chemist's Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

CHEMISTS' Shopfittings.—Silent Salesman, Showcases, Window-enclosures, Dispensing-screens, Drug-fittings, Wallcases, Glass-front Counters, Counter Drawers, etc., at lowest prices; shop-soiled second-hand; 30 years fitting pharmacies; you will save time and money by sending your requirements to George Cook, The Chemists' Working Shopfitter, Catherine Street, City Road, Old Street. London.

CHEMIST.—Complete set of modern Fittings; good second-hand; 12-ft. Drug Fitting, complete; 10-ft. Glass-fronted Counter; 6-ft. Dispensing Screen and Counter; Perfumery Case and Desk; 4-ft. Mahogany Bent Plate-glass Counter Case; 6-ft. Mahogany Wall Case; £43 10*s.* the lot; absolute bargain; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, improvements, etc.; designs, estimates free. MILLS, Shop Front, Shop Fitting Glass Facia Works, 163-5 Old Street, London, E.C. 'Phone 550 London Wall.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

POTASSIUM oxalate neutral, 56 lb.; good quality; offers wanted. Lilywhite, Ltd., Halifax.

FOR Disposal.—Advertiser has in stock about 8 oz. Ol. Sabinæ, 20 oz. Ol. Verbenæ, 1 oz. Ol. Angelica, all of which are about 40 years old. Apply, 92/40, Office of this Paper.

N.H.I.—Those back numbers are worth money to you. Have you tried my service? You send me your Prescription Account Forms, and Tariff, and I return to you absolutely ready to forward to Committee. I have a competent staff. No order too small and none too large. F. H. Richards, Prescription Pricing Expert, 59 Dudden Hill Lane, Willesden, London.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "The Chemist and Druggist."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Acetosalicylic acid (91/26)
Adalin tablets (63/10)
Cocaine (91/26)
Morphia hydrochlor. (91/26)
Phenacetin (91/26)
Phenazonum (91/26)
Resorcinol-phthalein or fluorescein (87/43)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Santonin, 2½ oz. (61/4)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d.*

FOR DISPOSAL.

BOOKS AND PERIODICALS.

"CHEMIST and Druggist" from 1905 to April 3, 1915; clean; fit for binding; 776 numbers; 14*s.* 6*d.*, carriage forward. Hutton, Dial Street, Leeds.

OPTICAL AND PHOTOGRAPHIC.

OPHTHALMOSCOPE, "Morton's," as new, in case; what offers? McEwen, 17 Craven Road, London, W.

THORNTON-PICKARD Ruby reflex, 5 by 4, with anastigmat, 6.8, six slides, case; what offers? cash or exchange. Braid, Chemist, Exmouth.

RAPHAEL'S trial-case cabinet; similar listed £20; full set lenses, prisms, frame, etc.; excellent condition; with orthops chart, £11; wanted, iron dental chair, cheap. 67/40, Office of this Paper.

PROPRIETARY ARTICLES.

HOMMEL'S H. Ring Hæmatogen, 2*s.* 9*d.* size, unstamped, new condition, 10*s.* 6*d.* dozen. Holt Green, South Kensington.

SHOP FITTINGS.

BOTTLES.—9 gross 3 v. round white flint perfumes; 3 gross 1-oz. do. pills; 6 gross 4-oz., do. glycerine; 2 gross 6-oz., white panels; 2 gross 5-oz., green do.; 4 gross 6-oz., sauce, plain; 2 gross 3, 6, 16 oz., salads, fluted; several gross blue long-neck castor oils, various sizes; also burst offs, ½, 1, 1½ oz., champagne shapes; 1*d.* inks; 1*d.* sweets; what offers? Hebditch, Selby.

MISCELLANEOUS.

MORTARS and pestles, No. 12, 8*s.*; 6, 3*s.*; 2, 1*s.* 6*d.*; 5-gr. pill machine, 8*s.*; 10-gall. window carboy, 10*s.*; 8-ft. window enclosure, 4 ft. 6 in. high, 2 ft. 9 in. deep; 40 blue dome ointment jars, 6*d.* each; 10 40-oz. blue syrups, 1*s.* each; 3 sets scales; other items quoted; 60-guinea piano, £25. Staley, Chemist, Burton-on-Trent.

POWERFUL microscope by Kay in case, 25*s.*; human skull complete, 7*s.* 6*d.*; dispensing scales, Agate bearings, by Avery, 15*s.*; another set, 10*s.*; artificial teeth, show specimen, full and partial sets, cheap, from 2*s.* 6*d.* to 7*s.* 6*d.*; powerful magneto-electric machine, shop soiled, 7*s.* 6*d.*; Maxim's pipe of peace and inhaler, used, 5*s.*; approval deposit, if returned carriage paid. Badham, 118 Rann Street, Birmingham.

WANTED.

WANTED, dental engine, portable, with burrs. 69/21, Office of this Paper.

LENS, No. 2a Aldis, f6.3 and trio in compound shutter. 2/24, Office of this Paper.

SODA fountain wanted, in good condition; size 2½ to 3 ft. "Soda" (68/37), Office of this Paper.

WANTED, small size second-hand Gardner's powder mixer; cheap; good condition. 92/23, Office of this Paper.

RODAGEN, Japanese floating soap, vacuum flasks. State quantity and price, Bishops, 460 Holloway Road, London.

MARBLE mortar, about 19 in. diameter, 14 in. depth; good condition. All offers to 62/23, Office of this Paper.

PARKER'S essence of ginger, any size, in square bottles; at least a year old. Burnett & Turner, Chemists, Clifton, Bristol.

WERNER & Pfleiderer pill mass mixing machine for hand or power. Offers to "Lozenge" (90/25), Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

WANTED, large quantities of small bottles, stoppered or unstoppered panels, limes, pomades, and all kinds; any quantity for cash. Send particulars and quantity, 62/4, Office of this Paper.

HALF retail price given for watch-pocket carbines, vest-pocket Kodaks, and other small folding cameras; full price given for stereo prism binoculars; cash by return. Watsons, 84 High Street, Sheffield.

ADDRESSES WANTED.

HON. IVAN CAMPBELL, London; Mr. Kent Smith, late of Liverpool. Cave, Chemist, Southport.

MR. G. A. M. EVANS, residing at Hove or Brighton. Brewer & Marston, Chemists, 44 Copthall Avenue, E.C.

Association Affairs.

Aberdeen.—At the special meeting of the Pharmaceutical Association, held in Robert Gordon's College on April 28, Mr. J. R. Reith presiding (*C. & D.*, May 1, p. 52), prizes were presented to the following students at the evening classes of the School of Pharmacy. *Botany*: 1st, G. McK. D. Lobban; 2nd, F. W. F. Hendry. *Pharmacy*: 1st, Annie R. Benzie; 2nd, A. J. Ironside. *Organic Chemistry*: 1st, Jeanie Stephenson; 2nd, Edward S. Stephen. *Inorganic Chemistry*: 1st, Maysie R. Robertson; 2nd, F. W. F. Hendry. *Practical Chemistry*: 1st, G. Sherriffs; 2nd, Maysie R. Robertson. The prizes were to have been awarded by Dr. J. F. Tocher, who conducted the examination, but in his absence, through indisposition, the duty was undertaken by the Chairman. A service of tea followed the presentation of the prizes and certificates. Thereafter the meeting considered the advisability of forming a committee to look after general trade interests. It was agreed to form such a committee, and twelve members were accordingly elected.

Cumberland and Westmorland.—The annual meeting of the Cumberland and Westmorland Chemists' Association was held at Workington on April 28, the President (Mr. F. B. Bennett, Whitehaven) presiding over a small attendance. Mr. F. Pilkington Sargeant, of the Council of the Pharmaceutical Society, was present, and delivered an inspiring address on the work of the Council during the past year. This was followed by a discussion on local matters. The Secretary presented the annual report, which dealt mostly with Insurance matters. There are fifty-nine names on the panel list, five of which are limited companies with qualified managers. There are no unqualified drug-stores on the panel. The 1913 accounts were paid in full, the cost of drugs per insured person being $17\frac{88}{100}$*d.*; of the 1914 accounts 90 per cent. has been paid. The Pharmaceutical Society having ceased to check prescriptions during the year, the Chairmen of the Panel and Pharmaceutical Committees, in consultation with the Insurance Finance Sub-Committee, appointed Mr. A. H. M. Purse, Sunderland, to undertake the work. So far no administrative expenses have been obtained from the Insurance Committee, so that a voluntary levy was decided upon. There has been a marked decrease in the prescribing of proprietary articles as the result of the persistent action of the Committee in bringing the matter before the Panel Committee. Pressure is now being brought to bear on the Panel Committee to transfer habitual users of cod-liver-oil emulsion to the Sanatorium Fund. The claims on the Cumberland Drug Fund during the year were as follows:

Quarter ended—	Amount Claimed	No. of Prescriptions	Amount Allowed
April 11	£1,599	40,103	£1,598
July 11	984	24,098	985
October 11 ...	765	20,746	800
December 31 ...	732	21,132	707
	£4,070	106,079	£4,091

The first quarter includes Carlisle, which in April 1914 was made a county borough and now has an organisation of its own. The following statistics were given for Westmorland:

Amount of Drug Fund	Not yet ascertained
No. of insured persons on doctors' lists (average per quarter)	16,808
No. of persons for whom doctors dispense	8,210
Amount credited doctors (2*s.* per head), roughly ...	£821 } £1,627
" " chemists	806 }
No. of prescriptions	23,849
Average cost per prescription	8,112*d.*
Average cost per insured person within one-mile limit ...	1*s.* 10½ *l.*

The balance-sheet, showing a small credit balance, was presented. The meeting passed a vote of condolence with the relatives of the late Mr. John Hallaway, Carlisle. The President, Secretary, and Committee were re-elected. A further meeting was held at Carlisle on April 29.

Gloucestershire.—Mr. W. H. Hill presided at a meeting of the County Pharmacists' Association at Cheltenham on April 29, when Mr. Spencer Palmer, in *Jottings and Reminiscences of Pharmacy*, entertained the company of fourteen greatly with his humour, giving them at the same time many a good hint that will be turned to practical advantage. He was most cordially thanked.

Manchester.—A Council-meeting of the Manchester Pharmaceutical Association was held at the Albion Hotel on April 28 for the purpose of electing officers. Mr. W. H. Delve was elected *President*, and, in accepting office, he said he was proud of the honour conferred upon him, and would endeavour to uphold the dignity of the position. Messrs. F. W. Bates and W. Lane were elected *Vice-Presidents*, Mr. T. Miller was re-elected *Hon. Secretary*, and Mr. A. J. Pidd was re-elected *Hon. Treasurer*. A vote of thanks was passed to the retiring President (Mr. Jas. Grier, M.Sc.).

Royal Institution.—The Friday evening discourse on April 30 was by Professor F. G. Donnan, F.R.S., on *Emulsions and Emulsification*. The Duke of Northumberland was in the chair. The lecturer defined an emulsion as "a very fine distribution of a liquid in another liquid." As typical emulsions, milk and the liquid resulting on adding a few drops of an alcoholic solution of mastic to water were mentioned. Emulsions of oil in water and water in oil are, said the lecturer, of considerable scientific interest, and their successful production is involved in the preparation of sauce hollandaise, mayonnaise sauce, and cream soups of the table. By means of the epidiascope a film of oil emulsion highly magnified was projected on the screen, and the spheres of oil, $\frac{1}{1000}$ mm. in diameter, were shown as large globules. Scott's emulsion, which Professor Donnan said many of the audience had found less unpleasant to take than cod-liver oil, is of this type. Butter, on the other hand, is an emulsion of water in fat. Dealing then with the phenomena involved in promoting stability in emulsions, the most important is the fact that the oil spheres in an emulsion are electrically charged. Most emulsions are negatively charged. Experiments, shown by means of the lantern, were performed to demonstrate this fact, an oil emulsion in which the oil was stained with osmium tetroxide being employed. It was further shown that by adding to an emulsion salts of high valency which carry a positive charge, the emulsion becomes unstable, aluminium chloride being added to a mastic emulsion. A trace of alkali makes for the stability of an emulsion, because, for one thing, it increases the electrical charge. Dust and fog particles are negatively charged, and Sir Oliver Lodge's method of dispersing fog, which consists in projecting positive electricity into the air, was demonstrated, a large glass vessel filled with magnesium oxide from burning magnesium being used. The other factor which is involved in the stability of emulsions is that emulsifying-agents diminish the surface tension of the liquid—that is, the tendency of the particles of oil to gather together is diminished. The action of soap in lowering the surface tension was shown by placing a drop of soap solution on the surface of a dish of water which had been sprinkled with lycopodium; at once the powder shot off to the sides of the vessel. The substances that lower the surface tension also cause surface concentration. This was well shown by means of a frothing solution of methyl violet, equal quantities of the original liquid and that from condensed froth being compared, and the latter exhibiting the deeper colour. This surface concentration is an important factor in determining the stability of emulsions. Reference was made to the use of gum arabic and albumen in pharmacy as emulsifying-agents where soaps are inadmissible. At the end of the lecture attention was drawn to various emulsions. These were Scott's emulsion, Angier's emulsion—"an extraordinarily fine emulsion"—and the so-called synthetic milk. The last-named, said the lecturer, appears to be prepared from nut oil, albumen, casein, and sugar, and is a very nourishing fluid. It goes sour like ordinary milk, and the lecturer suggested that the difficulty of supplying milk to soldiers at the Front might be overcome by establishing a kind of "motor-cow" in the form of a travelling factory of synthetic milk.—At the annual meeting, held on May 1, the Duke of Northumberland was re-elected President, Sir James Crichton-Browne Treasurer, and Colonel Edmond H. Hills Secretary. The annual report of the Committee of Visitors was read and adopted, and the meeting also received the report of the Davy-Faraday Research Laboratory Committee.—At the meeting of members on May 3, it was announced that Dr. T. W. Dewar had made a donation of 15*l.* 15*s.* to the fund for the promotion of experimental research at low temperatures.

Southend-on-Sea.—The local Association of Pharmacists met at 97 The Broadway, Southend, on April 26, Mr. S. F. Body presiding. Mr. R. H. Shields, of Rochford, read a paper on *Optics from a Pharmacist's Standpoint*, which was thoroughly instructive and of much personal interest, for the author told how he studied for and obtained the F.S.M.C. diploma while carrying on his pharmacy. He strongly advised chemists to take up optics as a side-line, as it is a most remunerative business. The President explained various optical appliances, which he lent for the occasion, and both he and Mr. Shields were heartily thanked.

Torquay.—The annual meeting of the District Pharmacists' Association was held at Torquay on Wednesday, April 28, Mr. J. Taylor, J.P., presiding. The Secretary reported that out of thirty-two pharmacists in business in the district covered by the Association only three are not

members. The Treasurer's report showed a satisfactory balance. He was directed to send a guinea to the Pharmaceutical Benevolent Fund. The retiring officers were re-elected as follows: *President*, Mr. John Taylor; *Vice-President*, Mr. F. Sarson; *Treasurer*, Mr. T. W. Dunsford; *Hon. Secretary*, Mr. A. J. Ventham; and *Executive Committee*, Messrs. J. P. Swaffin (Brixham), G. Hulens (Totnes), N. V. Stow (Newton Abbot). Mr. F. March was appointed *Auditor*. It was resolved that railway-fares of members who are also members of the County Pharmaceutical Committee on Insurance should be paid by the Association. A discussion on Insurance matters followed, in which it was remarked that acetosalicylic-acid tablets remain as before on the May Tariff, in spite of the great advance in cost, and that cod-liver oil is not adequately provided for.

Women Pharmacists.—A meeting of the Association of Women Pharmacists was held in Gordon Hall, Gordon Square, London, W.C., on May 4. Miss Buchanan was in the chair. A paper entitled *Outlines of Homœopathy* was read by Miss M. A. Boyes, Ph.C., head pharmacist of the London Homœopathic Hospital. The lecturer gave a short sketch of the life of Hahnemann, the originator of homœopathic methods. He was born in 1755, at a time when venesection was much used, a practice which he greatly condemned. The year 1810 may be said to have seen the birthday of homœopathy, and the discoveries made then showed that drugs can produce artificial diseases. Hahnemann found, by experimenting on himself and others, that drugs that produce certain symptoms when taken by healthy people are able to cure the same symptoms in a diseased person—*e.g.*, cinchona produces all the effects of an attack of malaria in a healthy person, but this drug itself is used as a remedy for malaria. The believers in homœopathy hold that the symptoms of illness are aggravated by large doses, therefore one feature of their art is the giving of infinitesimal doses. Homœopathy does not cure diseases, but diseased people. The lecturer went on to describe the most modern treatment by means of careful dieting and periodical doses of "high-potency" medicines—viz., tinctures or triturations of extreme attenuation. The subject dealt with was new ground to many of the audience, and questions were freely asked at the close.

Society of Chemical Industry.

Annual Meeting.

DR. C. C. CARPENTER has been nominated as President, and will take office after the annual meeting, which is to be held at the Municipal School of Technology, Manchester, on July 14. The meeting is the first to be held under the new scheme by which technical subjects are to be discussed in addition to business matters. The provisional arrangements are as follows:

WEDNESDAY, JULY 14, 1915.

Morning: Annual general meeting and address from the President, Professor G. G. Henderson, D.Sc.

Afternoon: "Research in Chemical-industry." Dr. M. O. Forster, F.R.S., and Dr. Chas. C. Carpenter.

Evening: Annual dinner.

THURSDAY, JULY 15, 1915.

Morning: "Patent Law." Mr. I. Levinstein, M.Sc.Tech.

Afternoon: "Chemical Engineering." Dr. G. T. Beilby, F.R.S.

Evening: Visit to the University Laboratories. Demonstrations by Sir Ernest Rutherford, F.R.S., Professor W. J. Pope, F.R.S., and Professor Harold Dixon, F.R.S.

FRIDAY, JULY 16, 1915.

Morning: "Cheap Power." Mr. Walter F. Reid.

Afternoon: Visit to works.

Evening: Social meeting.

London Section.

A MEETING of this Section was held at Burlington House, Piccadilly, W., on May 3, Professor W. R. Hodgkinson in the chair. After the minutes of the previous meeting had been read, Mr. T. D. Morson (Hon. Secretary) mentioned that Mr. J. W. Hinchley's motion regarding alterations in the method of electing the Committee had not been received, and the matter would therefore have to be held over. The Chairman also stated that Professor F. G. Donnan was to have read a paper dealing with the technical control of chemical-works, but had been unable to carry out his intention.

LITHARGE IN VULCANISATION.—Dr. H. P. Stevens then read a paper dealing with "The Function of Litharge in the Vulcanisation Process," which referred to a series of experiments undertaken to find out the *rôle* of litharge when used as an ingredient of the rubber "mix" for vulcanising. The time of vulcanisation is shorter and the temperature lower when litharge is employed, these results being attributed to the rise in temperature due to the reaction. Dr. Stevens then described an analytical process he has devised, by which the proportions of free sulphur, lead sulphide, and lead sulphate can be determined, the main novelty of the method being that the rubber is first swelled up by means of ether, so that the reagents subsequently used can act better. A series of experimental mixings were made containing rubber 100 parts, sulphur 5 parts, and amounts of litharge varying from *nil* to 70 parts. It was found that moderate additions of litharge increase the coefficient of vulcanisation, and that the maximum is reached when 17.5 parts of litharge is employed. In the discussion which followed, surprise was expressed at the large proportion of extraneous matter added to the rubber, but the lecturer said that 70 per cent. of other substances is not at all unusual.

WATER-PURIFIERS.—A paper by Mr. John Don, which dealt with the use of permutit and polarite as water-purifiers, was read by the Chairman. The influence of sand filtration on water was first referred to, and the great advantage of polarite over sand. Polarite is a mineral containing percentages: Fe_3O_4, 54; SiO_2, 26; CaO, 2; Al_2O_3, 6; NaO, 7; C, 5. Permutit, an artificial zeolite, consists of $3SiO_3,Al_2O_3(K_2O.Na_2O,CaO)5H_2O$, and is used for softening water. The soda in permutit is replaced by the lime and magnesium of hard water, when such water is passed over the granular substance. The author conducted a number of experiments to show that this is chemical change, and not absorption. When the change has taken place the permutit is regenerated by passing brine through the filter. The discussion brought out several interesting points. The fact was emphasised that no reduction in the total solids is brought about by permutit, and that a proportion of over 200 parts of sodium sulphate per 100,000 of water is objectionable as a boiler-water on account of the frothing that results. Hardness in water can be brought down to zero by the use of the lime-process, followed by filtration through permutit, such water being specially desirable in wool-dyeing. This soft water acts quickly on iron pipes, and in consequence must be prepared where it is to be used. A director of the company which is exploiting permutit, who was present, stated that 1 ton of permutit would soften 10,000 gallons of London water, and that this quantity of permutit would require 2 cwt. of salt for its regeneration. The cost of treating London water with permutit would be from 2*d*. to 2½*d*. per thousand gallons. Mr. Morson remarked that the reaction of the calcium salts with the sodium of the permutit has great interest and possibilities from the point of view of the chemical-manufacturer.

French News.

(From the "C. & D." Paris Correspondent.)

M. FERDINAND BARBAULT, pharmacist, Yer, and captain in the railway staff of the French army, is dead.

THE USE OF ETHER.—The Paris "Journal" makes allusion to the fact, reported from the Eastern Front, of Germans advancing to the attack drugged by ether, and attempts an explanation. To destroy vermin, it appears, the German doctors advised the use of ether; and among those who received the drug, some put it to a use for which it was never intended by the senders. A poster has now been put up, the "Journal" adds, in all German towns, advising the population not to send ether to the troops at the Front.

SIR DOUGLAS HAIG AND THE DENTIST.—The "Chronique Médicale" is responsible for the following anecdote:

Sir Douglas Haig, the British General, who has a legendary reputation for cool courage, was, at the time of

the Battle of the Marne, the hero of an adventure worth recounting. He was suddenly seized one morning with a raging toothache. A telegram was at once sent off to Paris for a dentist, to whom alone Sir Douglas consented to confide his jaw (*sic*). The dentist left at once. The motor-car reached the firing-line. Three shells successively struck it, and a "marmite" finally smashed a wheel and sent the dentist's box of instruments flying. They were gathered up with much trouble. After a long march the dentist at last arrived at Sir Douglas Haig's headquarters, after having been several times arrested as a spy and closely questioned in consequence. He found the General, although still in pain, sitting at breakfast, imperturbable in the midst of the shells raining around; and it was under fire, to the deafening roar of cannon, that the dentist extracted, with a hand a little more shaky than usual, the defective tooth.

The Pharmacist in the Army.—The unsatisfactory conditions of pharmacists in the French army have been considered by the "Pharmaceutical Group" in the French Parliament, and a letter about the matter, signed by its President and Secretary (Professor Paul Cazaneuve, Senator, and M. Schmidt, Deputy of the Vosges district), has been addressed to the Minister of War. M. Mistral, a member of the Chamber of Deputies, also asked the French Minister of War why pharmacists of the auxiliary services who are retained by the military authorities should not be granted the grade of "second-class pharmacist-major" (sublieutenant). The Minister replied that it is because these pharmacists of the auxiliary service are "specialists" that they are convoked and maintained according to the army's needs, the youngest first. They are only utilised in base hospitals. He cannot give them the rank of pharmacist-major because pharmacists holding such commissions are liable for service in field-ambulances, and must therefore be physically fit for military service. It seems that dentists are just as badly off in the matter of rank. "No legal text or official regulation," said the Minister in reply to a complaint, "permits commissions to be given to dentists as such; but they can be promoted to the rank of corporal or sergeant like any other privates, and on the same conditions."

Netherlands Notes.

(From the "C. & D." Correspondent.)

Belgian Refugee Physicians are allowed to practise in Holland on behalf of their compatriots, provided they do not accept remuneration for it.

The World's Production of Iodine.—Mr. H. F. Tillema, the Dutch Government adviser on the chemical and pharmaceutical industries, has published in the "Chemisch Weekblad" and in the "Pharmaceutisch Weekblad" some data regarding the production of iodine. The yearly production of Chile amounts to 450,000 kilos., Peru to 40,000 kilos., Japan to 75,000 kilos., and Europe to 180,000 kilos. Germany buys approximately from Chile 235,000 kilos., from Peru 21,000 kilos., from Norway 15,000 kilos., and from Japan 8,000 kilos. annually.

Iodine from the Dutch East Indies.—It has been known for many years past that iodine is to be found in the East Indies, and a crude product has been obtained from rich iodine-wells in the neighbourhood of Soerabaja by the concessionary, Ellinger. This crude iodine is sent to Europe, where potassium iodide and iodoform are manufactured from it; but, strange to say, nothing has been done in Holland as yet. The war has shown, however, how much Holland depends on foreign countries for the supply of chemicals and medicaments. Now a large Dutch factory intends to apply itself to the manufacture of iodine-preparations, and has been provided with a large quantity of the raw material from the East Indies through the agency of the Minister of the Colonial Department and the Governor-General of the Dutch East Indies. The factory in question has ample facilities, and a staff of chemists capable of making the industry a success in Holland.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

Reciprocity.—The Governor-General, under the Medical and Pharmacy Act, has approved the following amended regulation framed by the Colonial Pharmacy Board: "The following certificates will be accepted by the Board as sufficient evidence of competency of any person holding the same to practise as a chemist and druggist in the Cape Province without further examination: Major examination certificate of the Pharmaceutical Society of Great Britain; Minor examination certificate of the Pharmaceutical Society of Great Britain; Pharmaceutical Chemists' examination certificate of the Pharmaceutical Society of Ireland; examination certificate of the Pharmacy Board of Victoria; examination certificate of the Pharmaceutical Society of Tasmania; examination certificate of the Pharmacy Board of Queensland."

Shop-hours Ordinance.—The Shop-hours Ordinance, which has been before the Provincial Council for some time, has become law. "Though not perfect," said the Administrator in closing the Session of the House, "it will be beneficial in its effect, and in twelve months' time they could, if necessary, remodel and improve it." In the discussion in the House on April 10 an attempt was made to introduce the word "qualified" before "chemist" as it occurs in Clause 12. It was pointed out, however, that the Pharmacy Act controlled the employment of qualified persons in dispensing prescriptions, and that it would be an evasion of the law to allow an unqualified assistant to dispense. The Administrator said he wanted to make it clear that he objected to a doctor running a chemist's shop with an unqualified assistant, and if he (the Administrator) came across one he would prosecute him. He knew that in some instances an unqualified assistant might be as good as a qualified man, but they did not want to wink at breaches of the law. They would not tolerate quack doctors, nor would they have quack chemists. The amendment was, however, withdrawn. The Administrator later on pointed out that chemists are not classed as general dealers, and are somewhat above shopkeepers. Dr. Hewat remarked that the chemist's hours, like the doctor's, are not his own. The ordinary shopkeeper goes home in the evening with a feeling that his day's work is done; the chemist cannot do that, and consequently deserves more consideration. Mr. Gasson (Kimberley) said the chemists of his constituency had met and considered the Ordinance, with which they are in general agreement. They have not previously expected to get so much from legislation. Clause 12 was then agreed to.

Transvaal.

Accident to a Chemist.—While driving in the neighbourhood of Randfontein on Good Friday, Mr. F. W. Wileman, a chemist employed at the Randfontein Estates Native Hospital, was thrown from a trap and seriously injured. After being thrown out the wheel of the trap passed over the unfortunate man's leg, breaking it in two places. Much sympathy is felt for Mr. Wileman, who is a well-known and popular chemist on the Rand.

A Chemist Criminal.—Considerable sensation has been caused in Johannesburg by the revelations as to the career of a "Doctor Gibson," who has been concerned in robbing banks and duping immoral women. He is stated to have come from Manchester originally, where his father was a chemist. "Gibson"—that is not his real name—according to an informant of the "Sunday Times," managed two chemists' shops in Manchester, but surreptitiously sold the two businesses and decamped with about 2,000*l*.

Canadian News.

(From the "C. & D." Correspondent.)

Mr. C. McD. Hay has been elected president of the Lyman Bros. Co., Toronto. Mr. H. H. Lyman, who formerly occupied the position, was drowned in the *Empress of Ireland* disaster on the St. Lawrence.

War-supplies.—In addition to the case in which Mr. W. F. Garland, M.P., handed over to a six-months' apprentice a contract for surgical dressings, it appears that "the sister of the Deputy-Speaker" obtained a contract to supply $23,000 worth of drugs at prices which the

"Canadian Pharmaceutical Journal" states were found to bear a profit of from 100 to 1,200 per cent. Mercurial ointment was priced at $1.20 per lb., 5-grain aspirin tablets $16.00 per 1,000, oil of wintergreen from $3.20 to $8.00 per lb., absorbent wool (427 lb.) at $1.00 per lb., fluid extract of liquorice at $20.22 per lb.

A CONTRAST.—In the British House of Commons, states the "Canadian Pharmaceutical Journal," Mr. Glyn-Jones, a gentleman who graduated from the ranks of pharmacy, sits as a member, and has proven himself an alert guardian of the interests of his former *confrères*. When a question affecting the craft is up in the House, Mr. Jones is very much in evidence—a conserver of its interests and champion of its rights. In Canada we have a member of the craft a member of Parliament, but when the interests of the craft were threatened and its financial existence menaced, Mr. Garland was too much interested in swinging good big contracts with fat profits the way of his apprentice of a few months' standing to devote attention to the needs of pharmacy. Even when private members of the craft gave freely of time and effort to protect their *confrères*, Mr. Garland was non-existent, so far as extending aid or even the encouragement of his presence at a conference with the Government was concerned."

India and the East.

(From the "C. & D." Correspondents.)

TONIC-FOODS.—The Indian agents of Vi-casein and Sanatogen have been indulging in a newspaper war by advertisement, and some interesting developments are expected.

BUSINESS CHANGE.—The partnership formerly subsisting between Sir Robert Laidlaw and Frank Ross in the business of Frank Ross & Co., chemists and druggists, of Calcutta and Darjeeling, has been dissolved by mutual consent as from May 1, 1914, from which date Mr. Frank Ross became the sole proprietor.

COCAINE-SUBSTITUTES.—Dr. Haffkine, chemical examiner to the United Provinces of India, in his annual report states that, owing to the interruption of supplies of cocaine caused by the war, he has met with two instances of the use of the cocaine-substitute, anæsthesine (ethyl ester of para-amido-benzoic acid). He gives a method for distinguishing between anæsthesine and other cocaine-substitutes.

EXPORT OF MEDICAL AND SURGICAL STORES.—The Department of Commerce and Industry, Government of India, issues the following Press *communiqué*: "It is announced for general information that the prohibition on the export from British India of medical and surgical stores of every description has been modified so as to exclude magnesium sulphate, ajowan-seed, chiretta-root, and *Euphorbia pilulifera*."

COORG SANDALWOOD.—In the "Indian Trade Journal" for January 14 (p. 53) a statement is quoted from the Report of Forest Administration in Coorg for 1913-14 to the effect that delay on the part of the Imperial Institute in selling a consignment of Coorg sandalwood in London resulted in a comparatively poor price being obtained. This assertion, says the "Bulletin of the Imperial Institute" (January-March 1915) is not in accordance with the facts. The delay which occurred was entirely due to the faulty arrangements made in India. No co-operation between the shipper and the Imperial Institute was arranged. The first notification of the arrival of the wood in London was only received at the Imperial Institute on February 28, 1914, which was obviously too late to enable the wood to be sold by the brokers in February, as it should have been.

COCAINE-SMUGGLING.—At the Esplanade Police Court, Bombay, recently, Mr. F. Oliviera, Third Presidency Magistrate, sentenced a native, Mehram Mulji, to one year's rigorous imprisonment for being in illicit possession of 35,580 grains of cocaine, valued by the police and Excise authorities at Rs. 13,414 (over 6*d*. per grain). [The London price is 15*s*. to 16*s*. per oz.] The Indian correspondent of "The Lancet" of April 17 deals with the abuse of cocaine in India, especially in regard to sources of supply which have been affected by the war. It appears that communications with the old supplying firms have ceased, and many of the erstwhile smugglers (stewards and seamen of the Austrian-Lloyd boats) are either fighting for their country or interned in foreign ports. In the meantime new sources have to be discovered and new agents engaged. The certain prospect of enormous profits will tempt the retailer to relax a little of his customary caution. He will approach every available source of supply, not forgetting the Government stocks. The "Lancet" correspondent believes that there may be a revival of direct negotiations with wholesale chemists, British and French firms taking the place of German and Austrian. Cocaine will be sent in a large consignment of other drugs under a false label, and invoices will be so manipulated as to deceive the Customs. Such methods are difficult to detect, but with a temporary depression in sea-borne trade the Customs should be able to devote greater attention to the examination of consignments from doubtful firms to suspected consignees.

Trade-Marks.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(*From the "Trade-marks Journal," April 21, 1915.*)

"PHOSPHATINE"; for a chemical for clarifying sugar (1). By Sugar-manufacturers' Supply Co., 2 St. Dunstan's Hill, E.C. 366,344.

"PAXIMENTO"; for chemicals (1). By J. Hall & Sons (Bristol and London), Ltd., 51 Broadmead, Bristol. 366,599.

"GIBSOL" on circular-label, surrounded by words "GIBSON'S UNIVERSAL ANTISEPTIC OINTMENT" ("Universal" disclaimed); for veterinary ointment (2). By Jane Gibson, 2 Dartmouth Square, Dublin. 365,741. (Associated.)

"QUICKSTEP"; for a corn-preparation (3). By Florence H. Page, Alpha Cottage, Epsom Road, Guildford. 364,017.

"TERLINO" and "TRIUNO"; for medicines (3). By J. C. Smail, 8 and 10 North Methven Street, Perth. 364,842/3.

"LAIPHOS"; for medicinal chemicals (3). By United Chemists' Association, Ltd., 125 Norfolk Street, Sheffield. 366,207.

"UNOP"; for an ointment (3). By W. R. Williams, 169 Brockley Road, S.E. 366,363.

"BITROL"; for medicinal chemicals (3). By M. F. Pratt, 212 and 214 Great Portland Street, W. 366,415.

"SANALVE"; for an ointment (3). By S. Matthews & Co., Ltd., 19-21 Farringdon Street, E.C. 366,460.

"GROUSE BRAND," P. & B. Glasgow, with picture of grouse, on oval device; for coal-tar and coal-pitch (4). By Parker & Bell, 2 Charlotte Street, Port Dundas, Glasgow. 364,892.

"TRAGAGUM"; for all goods (4). By the Gum Tragasol Supply Co., Ltd., Hooton, Cheshire. 365,614. (Associated.)

"ALLBRI"; for non-mineral dyes (4). By J. Bright & Bros., Ltd., Fieldhouse Road, Rochdale. 366,368.

"ULTEX"; for all goods (8). By M. Bentzon, 40 Gloucester Street, Rosebery Avenue, E.C. 365,865.

"ZESTINO"; for all goods (42). By Cerebos, Ltd., Greatham, Durham. 365,805.

Circle enclosing arrows and spade and words "S. T. & SONS"; for malt (42). By S. Thompson & Sons, 89 Rolfe Street, Smethwick. 365,977.

Picture of newsboy with papers bearing words "'THE GREAT DAILY.' GREAT BRITISH SUCCESS—FRY'S"; for cocoa, etc. (42). By J. S. Fry & Sons, Ltd., Bristol. 365,970. (Associated.)

"VIV-U-LAC"; for food-substances (42). By G. Savage & Sons, 53 Aldersgate Street, E.C. 366,005.

"HIVENOL"; for all goods (42). By H. Leigh & Co. and the Kingov Trading Co., 35-37 Penarth Road, Cardiff. 366,024.

Device of sun and triangle bearing letters "H. A."; for food-substances (42). By H. Autran, Ltd., 4 George Lane, Eastcheap, E.C. 366,116. (Associated.)

"S. T." in monogram, forming part of circular wreath device; for food-substances (42). By the Standard Fruit-preserving Co., Ltd., 11-13 Gray Street, Waterloo Road, S.E. 366,252.

"Lemozel"; for a lemonade-preparation (42). By Lorimer-Marshall, Ltd., 12 Tower Hill, E.C. 366,347.

"Salina, the Ideal Table Water," etc., on shamrock device ("Salina" and "Ideal" disclaimed); for mineral water (44). By Cantrell & Cochrane, Ltd., 2-11 Nassau Place, Dublin. 365,431. (Associated.)

Picture of house with arrow pointing to door and words "Arrow Brand Direct to Your Home" ("Direct to Your Home" disclaimed); for mineral and aërated waters (44). By White Bros. (London), Ltd., Victoria Street, Stratford, E. 365,735.

"Ju-Ju"; for mineral and aërated waters (44). By A. J. Caley & Son, Ltd., Norwich. 366,238.

"Blackbird," with picture of same; for soap (47). By C. Thomas & Bros., Ltd., Bristol. 366,156. (Associated.)

"Deso"; for oils and greases (47). By the Stern Sonneborn Oil Co., Ltd., 16 Finsbury Square, E.C. 366,351.

"Eastern Foam"; for perfumery, etc. (48). By the British Drug Houses, Ltd., 22-30 Graham Street, N. 365,439. (Associated.)

"Kalmari"; for perfumery, etc. (48). By E. A. Barton, 5 Station Parade, Palmers Green, N. 365,991.

"Pascarel"; for all goods (48). By Lysol, Ltd., 9-10 St. Mary-at-Hill, E.C. 366,021.

"Nestanglo"; for perfumery, etc. (48). By Nestlé & Anglo-Swiss Condensed Milk Co., 6 and 8 Eastcheap, E.C. 366,210.

"Korketto"; for cork goods (50). By C. A. Gould, 125 High Holborn, W.C. 365,385.

(*From the "Trade-marks Journal," April 28, 1915.*)

"Speedwell," "White Sparrow," "Melzopan," for soaps (2); "Blue Bird," for polishes, etc. (50). By J. Mellis & Co., Prestonpans. 364,099 (associated), 366,338, 366,369, 363,850.

"Ekristol"; for ointments (3). By N.Y. International Chemical Co., Inc., 158 West Ninety-ninth Street, New York, U.S.A. 365,583.

"Danzovin" and device of girl holding grapes and glass of wine; for a medicated wine (3) and wine (43). By J. Hobson & Son, Regent Street, Leeds. 365,786/788. (Associated.)

"Kinsol"; for medicinal chemicals (3). By the Erasmic Co., Ltd., Warrington. 366,108. (Associated.)

"Iundoform"; for a medicine for hypersensitive dentine (3). By A. Wilson, 53 Bothwell Street, Glasgow. 366,544.

"Silver Crest"; for greases, lanolines, etc. (4), and for lanolines (48). By Hillcrest Oil Co. (Bradford), Ltd., Croft Street, Clayton, Manchester. 365,772/851. (Associated.)

"Thermorect"; for thermometers (8). By the Confectioners' Vegetable Colours and Fruit Essences Co., Ltd., Carpenter's Road, Stratford, E. 366,552.

"Valmetsol"; for a dental solution (11). By S. E. Valentine, 115 Fore Street, Kingsbridge. 366,297.

3711 over circular device including scales and words "North British Rubber Co., Ltd., Edinburgh" ("3711" disclaimed); for indiarubber hospital sheeting (40). By the North British Rubber Co., Ltd., Edinburgh. 365,852. (Associated.)

"Citroglactin"; for all goods (42). By the Kyms Chemical Co., Stamford, Lincs. 365,702.

"Ee-an-Me"; for all goods (42). By H. Rhodes & Co., 25 Newington Green, N. 366,083.

"Oreen"; for essences, etc. (42). By Stevenson & Howell, Ltd., 95A Southwark Street, S.E. 366,187. (Associated.)

"Camera"; for cocoa, etc. (42). By J. S. Fry & Sons, Ltd., 25 Union Street, Bristol. 366,263.

"Fos-Clar"; for food-substances (42). By Foster Clark, Ltd., Hart Street, Maidstone. 366,652.

"I.X.L." and "Makes the Dirt Fly," surrounding device of hand ("I.X.L." disclaimed); for soap (47). By the I.X.L. Soap and Perfumery Co., 307 Goldhawk Road, Shepherd's Bush, W. 365,651.

"Cactus" for all goods (47). By A. Wicksteed, Bank Court Chambers, Bank Street, Sheffield. 366,746.

"D'Reda's Nail Diamantine," with device of hand; for a nail-preparation (48). By Etheldreda Higgs, 24 Anson Road, N. 365,577.

New Books.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Bruce, J. Mitchell, and Dilling, Walter J. *Materia Medica and Therapeutics: An Introduction to the Rational Treatment of Disease.* 10th edit. 6¼×4. Pp. xii+645. 6*s.* 6*d.* net. (Cassell & Co., Ltd.) [This edition has been revised to correspond with the British Pharmacopœia, 1914. Since it was first published, thirty years ago, 57,000 copies of the manual have been sold, and this fact demonstrates better than words how useful it is as a text-book for medical students. The introduction contains a new section devoted to practical pharmacy. This extends to over sixteen pages, and is devoted to the more important operations that medical students have to learn in the dispensary, such as the preparation of mixtures, emulsions, liniments, lotions, powders, pills, suppositories, ointments, and plasters. The introduction occupies fifty-two pages, and is followed by consideration of Inorganic Materia Medica (Part I.), the subject being divided into six groups, while Part II. is devoted to Vegetable and Animal Materia Medica and Synthetic Preparations, considered in nine groups. Part III. of the manual consists of fifteen chapters on General Therapeutics, describing the action of medicines on different functions and parts of the body. The first and second parts of the book are those which interest pharmaceutical students equally with medical students, and we may illustrate the manner of treatment with reference to bismuth and its salts and preparations. These occur in the group on Heavy Metals; bismuth itself is first described, then in succession carbonate, salicylate, and subnitrate. The source, characters, and doses of each are given concisely, then the official preparation, these being followed by a description of the general chemical characters of bismuth salts, their actions and uses (1) locally, (2) action in the blood, etc. Next follow paragraphs devoted to the organic salts of bismuth which are not official. The style is clear, there being an absence of redundancy, and the authors have succeeded in making interesting and instructive a subject which is repellent to many medical students.]

Epitome of Useful Information Relating to Trade-marks, Letters Patent, Designs, Copyright, and the Use of the Royal Arms. 2nd edit. 8¾×5½. Pp. 120. 3*s.* (T. B. Browne, Ltd., 163 Queen Victoria Street, London, E.C.) [This work is a useful summary of the laws relating to trade-marks, patents, etc., with interesting explanations of the purpose of many of the statutory provisions, notes on decisions of the Courts, and advice to those who contemplate registering trade-marks or applying for letters patent. The book is a useful one to the trading community, as the information is accurate and is conveyed in a concise manner.]

Koller, Dr. Theodor. *The Utilisation of Waste Products: A Treatise on the Rational Utilisation, Recovery, and Treatment of Waste Products of all Kinds.* 2nd edit. 8½×5½. Pp. viii+327. 7*s.* 6*d.* net. (Scott, Greenwood & Son.) [The book is divided into fifty-eight chapters, each being devoted to a particular kind of waste, beginning with the waste of towns, and including, *inter alia*, cork waste, paper-works waste, waste from works devoted to colouring-matters, including aniline dyes, sugar-works waste, brewers' waste, waste from works devoted to coal-tar oils and other oils, alkali-works waste, waste from works devoted to the noble and rare metals; and one chapter is entitled "By-products of the Manufacture of Mineral Waters." As the book is a translation from the German, it is not surprising that it is incomplete from the British point of view. For example, the chapter devoted to by-products of the manufacture of mineral waters simply describes the utilisation of magnesite residues, which has nothing to do with "Mineral Waters," as the title of the chapter suggests and Britishers understand them.]

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, May 12.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. C. R. Darling, F.I.C., on "Recent Progress in Pyrometry."

Thursday, May 13.

Ocal Lodge of Pharmacy, Holborn Restaurant, London, W.C., at 3 P.M. Mr. Hugo W[illegible]on "Suggestive Salesmanship."

Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square, and [illegible]shed by the Proprietors at 42 Cannon Street, in the City of London.—*May* 8, 1915. [72]

CHEMISTS' PROFITS

DEPEND ABSOLUTELY
UPON ACCURATE WEIGHING

The appearance of the name 'Avery' upon weighing apparatus means that quite apart from expedience, volume of production, or any other consideration, quality and reliability have been the first consideration of the makers, and that a strict system of testing and inspection has eliminated the possibility of faulty work

WE MANUFACTURE ESPECIALLY FOR CHEMISTS

DISPENSING SCALES · FINE BALANCES
SPECIFIC GRAVITY AND ANALYTICAL BALANCES
CHEMISTS' PERSONAL WEIGHING MACHINES
AND

METRIC WEIGHTS

TO COMPLY WITH THE NEW TABULATION
OF THE BRITISH PHARMACOPOEIA

No. 71819
Sensitive to $\frac{1}{10}$ grain

For particulars of the many types of Scales especially designed for Chemists please write to Service Department C

W & T · AVERY · LTD

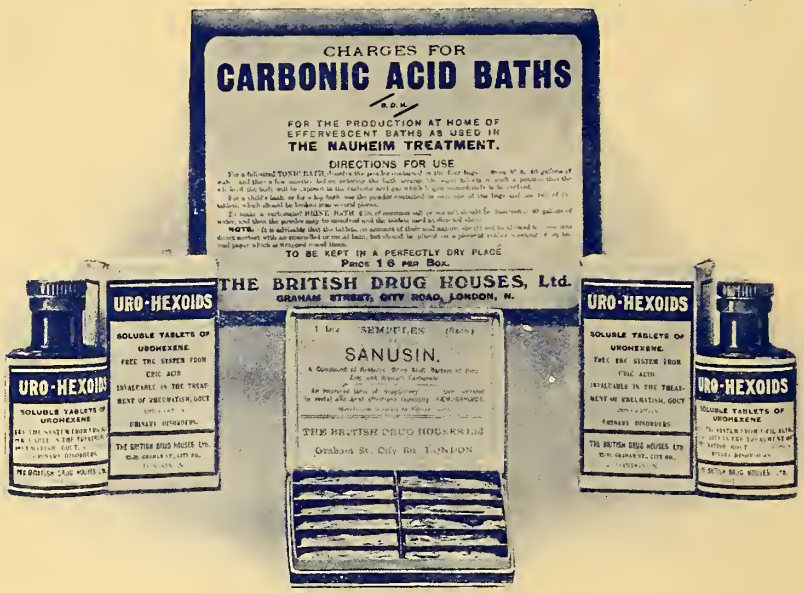
(Established 1730, in the reign of King George II.)

SOHO FOUNDRY · BIRMINGHAM

Telephone 134 Smethwick. Telegrams: "Avery, Birmingham."

or any of their 133 Branches and Depots throughout the British Isles

Ad. 57



URO-HEXOIDS.

TABLETS OF UROHEXENE, A COMBINATION OF HEXAMINE AND LITHIUM BENZOATE. A SUCCESSFUL URINARY ANTISEPTIC, DIURETIC AND ANTI-LITHIC.

RETAIL 1/9 (50 TABLETS). P.A.T.A. ... ... 10/6 PER DOZEN.

CARBONIC ACID BATHS, B.D.H.

CHARGES FOR THE PRODUCTION AT HOME OF EFFERVESCENT BATHS, AS USED IN THE NAUHEIM TREATMENT.

RETAIL (P.A.T.A) 1/6 PER BOX ... ... 13/- PER DOZEN.

SANUSIN IN THE FORM OF 'SEMPULES.'

SANUSIN 'SEMPULES' ARE ALMOST SPECIFIC IN CASES OF HAEMORRHOIDS.

RETAIL 2/6 (P.A.T.A) ... ... 21/- PER DOZEN.

¶ *The above lines effectually replace German products. Samples or literature (for distribution to medical men and others) may be had on request.*

THE BRITISH DRUG HOUSES, Ltd.
22 to 30 Graham Street, City Road, LONDON, N.

Printed for the Proprietors by SPOTTISWOODE & CO., LTD., 5 New-street Square; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*May* 8, 1915.